

**JUGENDGERICHT**  
COMPLEX PROJECTS

# INTRODUCTION

introduction

# CRIME & LAW



# PROCESS TO COURT



Crime Suspect



Investigation



Trial



Conviction

# WHO COMMITS CRIMES?

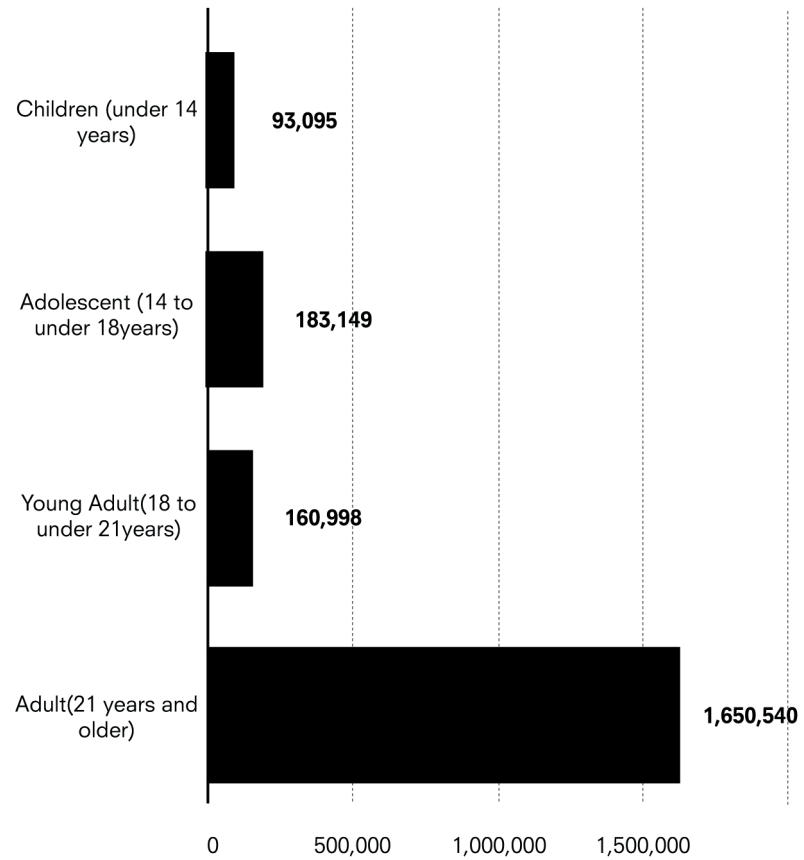
**CRIMINALITY IS AMONGST...**

introduction  
**...ALL AGES**



from children to elderly

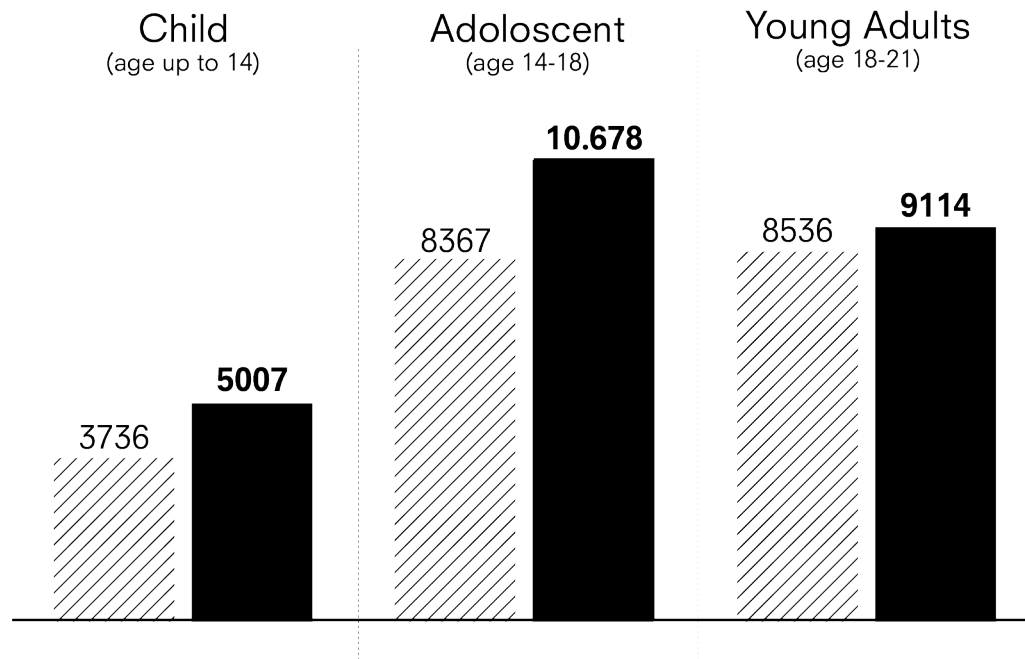
# CRIMINALITY IN GERMANY



Crime suspects by Age Group in Germany in 2022



# INCREASE EMINENT IN YOUTH OFFENDORS

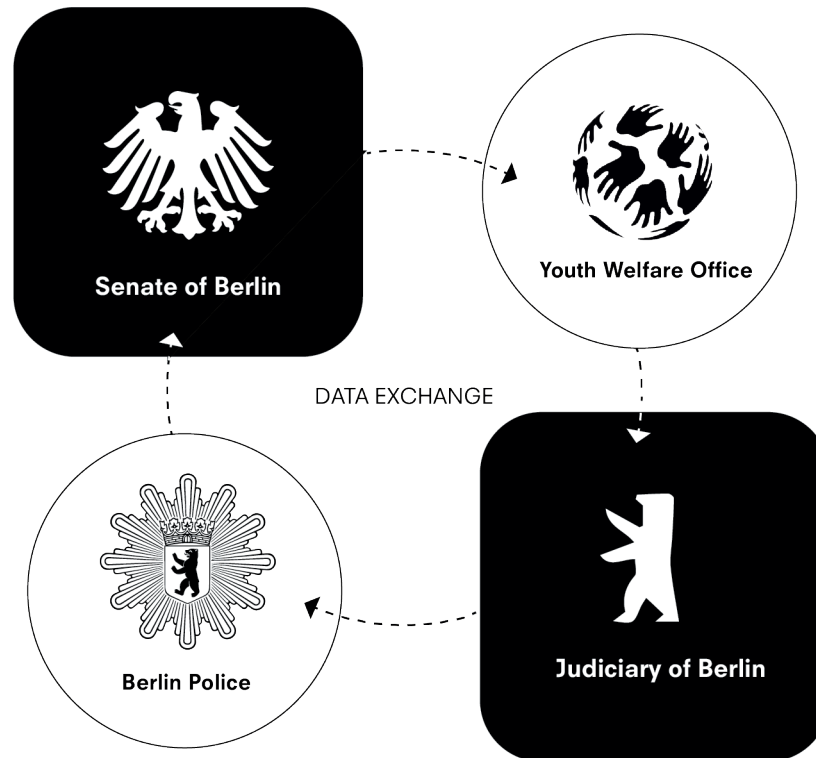


The number of child suspects rose by 34 percent, and that of adolescents by 27.6 percent



NO CHILD IS BORN A CRIMINAL - Alaniz

# PREVENTION MODEL FOR JUVENILE OFFENDERS BERLIN



Rapid Data Exchange between involved stakeholders, once the parents of young offenders consent and data protection officers agree

# DIGITALIZATION VISION



Integration of Data Center into Public Buildings (**Decentralise, Display Decarbonize**)

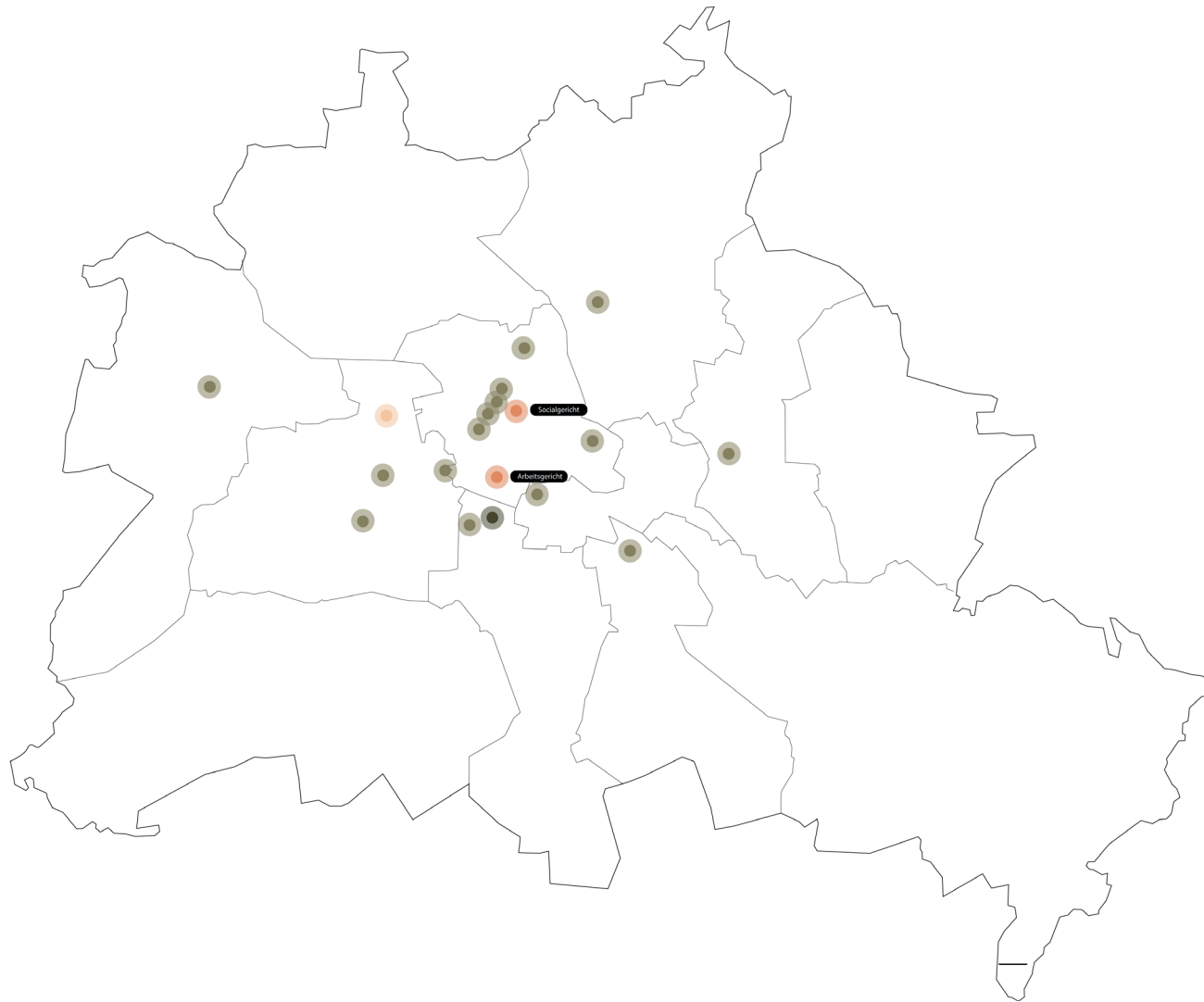
# DIGITALIZATION VISION



Internal rapid exchange between public buildings

# CURRENT STATE OF BERLIN

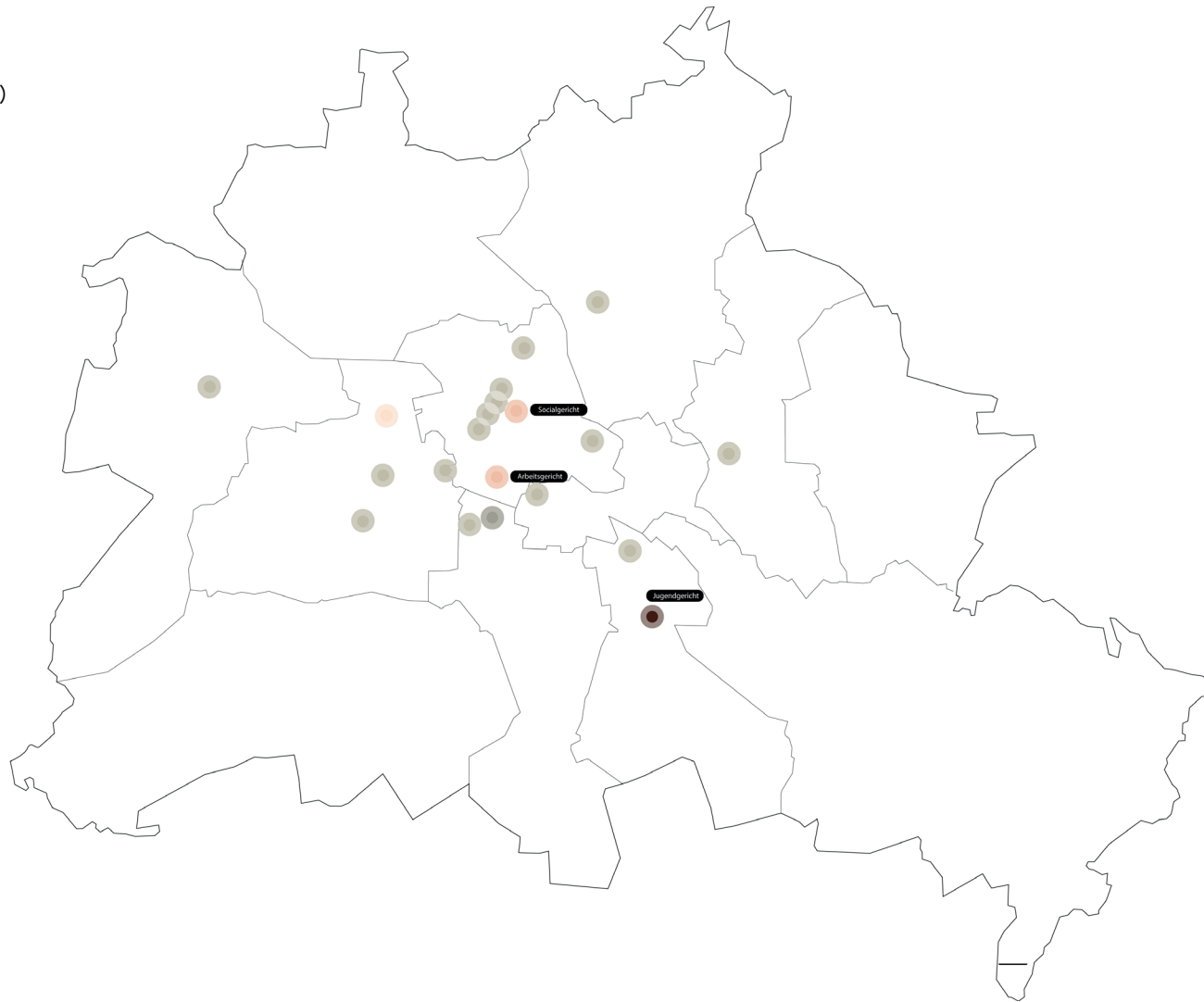
- Obelandesgericht
- Amtsgericht
- Landgericht
- Specialized Courthouse



Existing courthouses in Berlin > juvenile cases are taken by the Amtsgericht

# FUTURE SCENARIO FOR BERLIN

- Obelandesgericht
- Amtsgericht
- Landgericht
- Specialized Courthouse
- Jugendgericht (Youth Court)



Juvenile data is directly exchanged with the "One of Berlin" specialized courthouse The Jugendgericht

# DATA TRANSMISSION BETWEEN STAKEHOLDERS



Juvenile data is directly exchanged with the “One of Berlin” specialized courthouse The Jugendgericht



# RESEARCH QUESTION

“ HOW WILL THE ARCHITECTURAL TYPOLOGY OF A COURTHOUSE THAT IS PROGRAMMED ONLY FOR JUVENILES IN GERMANY DIFFER FROM A GENERAL COURTHOUSE ”

# DIFFERENT RULES, DIFFERENT NEEDS



## GERMAN JUVENILE LAW SYSTEM (JGG)

- Focus on **EDUCATION** rather than punishment
- Trials are generally not public
- A maximum of **5 YEARS**, it can go up to **10 YEARS**, and in particularly serious cases of murder, adolescents can be sentenced to a maximum of **15 YEARS** in prison
- Presence of **YOUTH COURT ASSISTANCE**
- Special youth judges and youth prosecutors
- Obligatory presence of parent

Child-friendly justice systems which guarantee the respect and the effective implementation of all children's rights (to **participation, protection** and **non-discrimination**) at the highest attainable level - The Council of Europe

introduction  
**AMBITION**



**BUILDING ON THE SCALE OF A CHILD**

**AND...**

introduction

# AMBITION

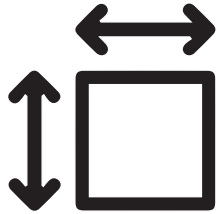


**CREATING A SAFE SPACE TO CONNECT BACK TO SOCIETY**

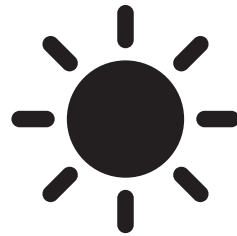
# DESIGN ANALYSIS

research

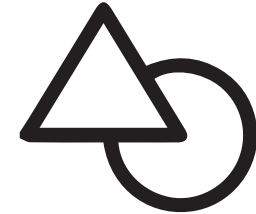
# DESIGN ON SCALE



SIZE  
(ceiling height, space)

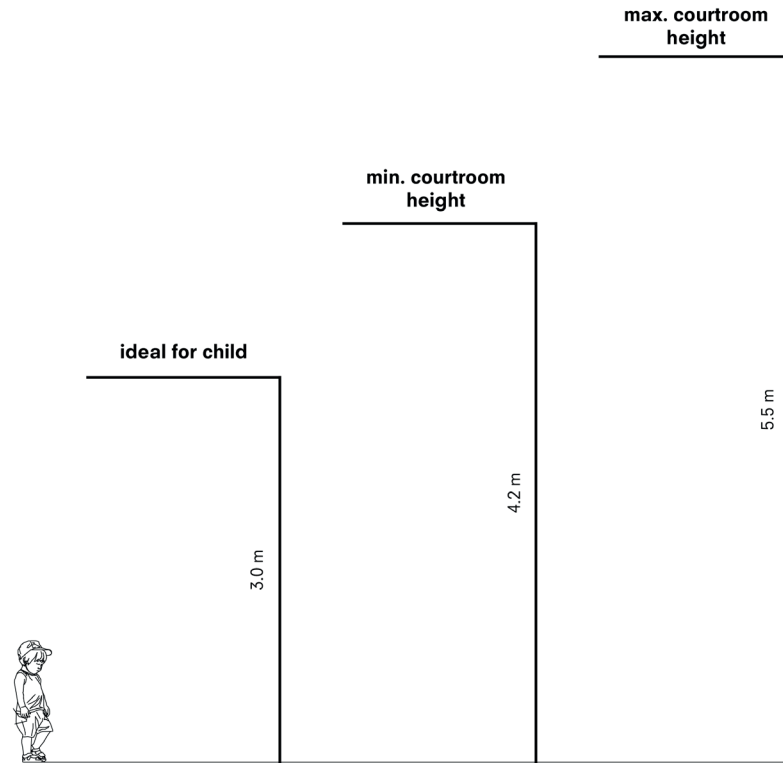


LIGHT  
(natural)



QUALITY OF SPACE  
(linear, radial)

# SIZE: CEILING

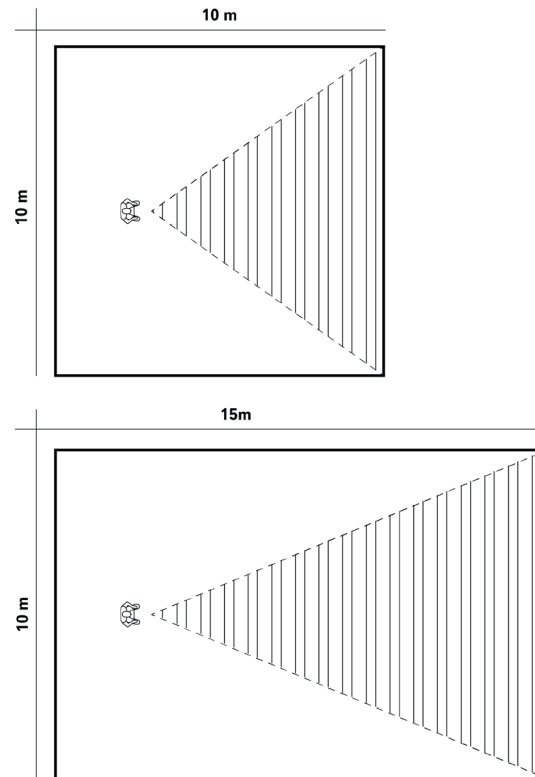


General courtroom ceiling heights vs. ideal height in comparison to a child



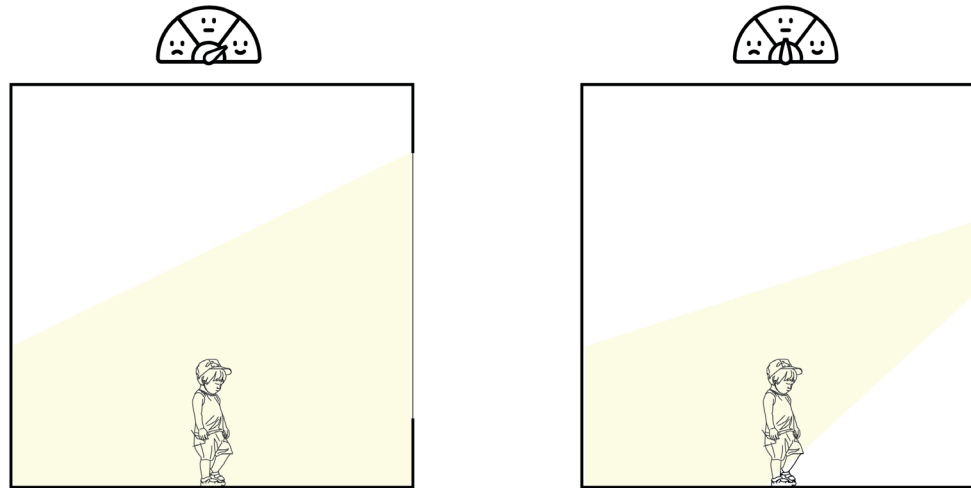
research

# SIZE: SPACE



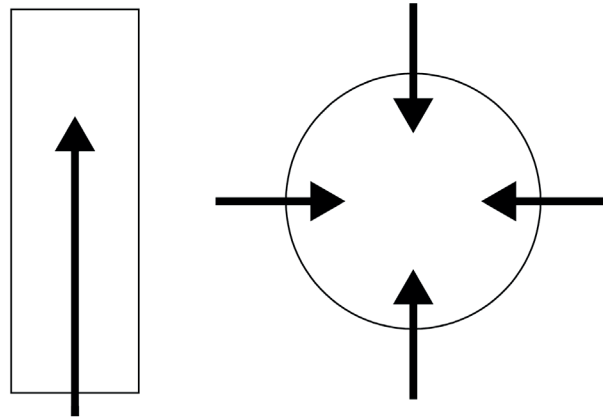
Courtroom sizes in correspondence to the viewpoint, smaller rooms give better overview of surrounding

# LIGHT: WINDOW SIZE



Mood is different in a space with varying amount of natural light (open facade required for waiting areas and living space)

# QUALITY OF SPACE

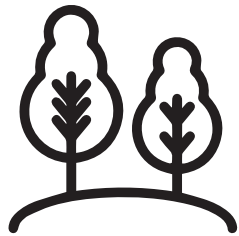


Linear space promotes movement, whileas a radial space concentrates movement  
(easy-wayfinding)

# SITE ANALYSIS

research

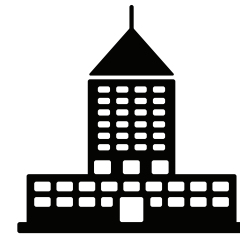
# CREATING A COMMUNITY



CONNECTION TO GREENERY  
(park)



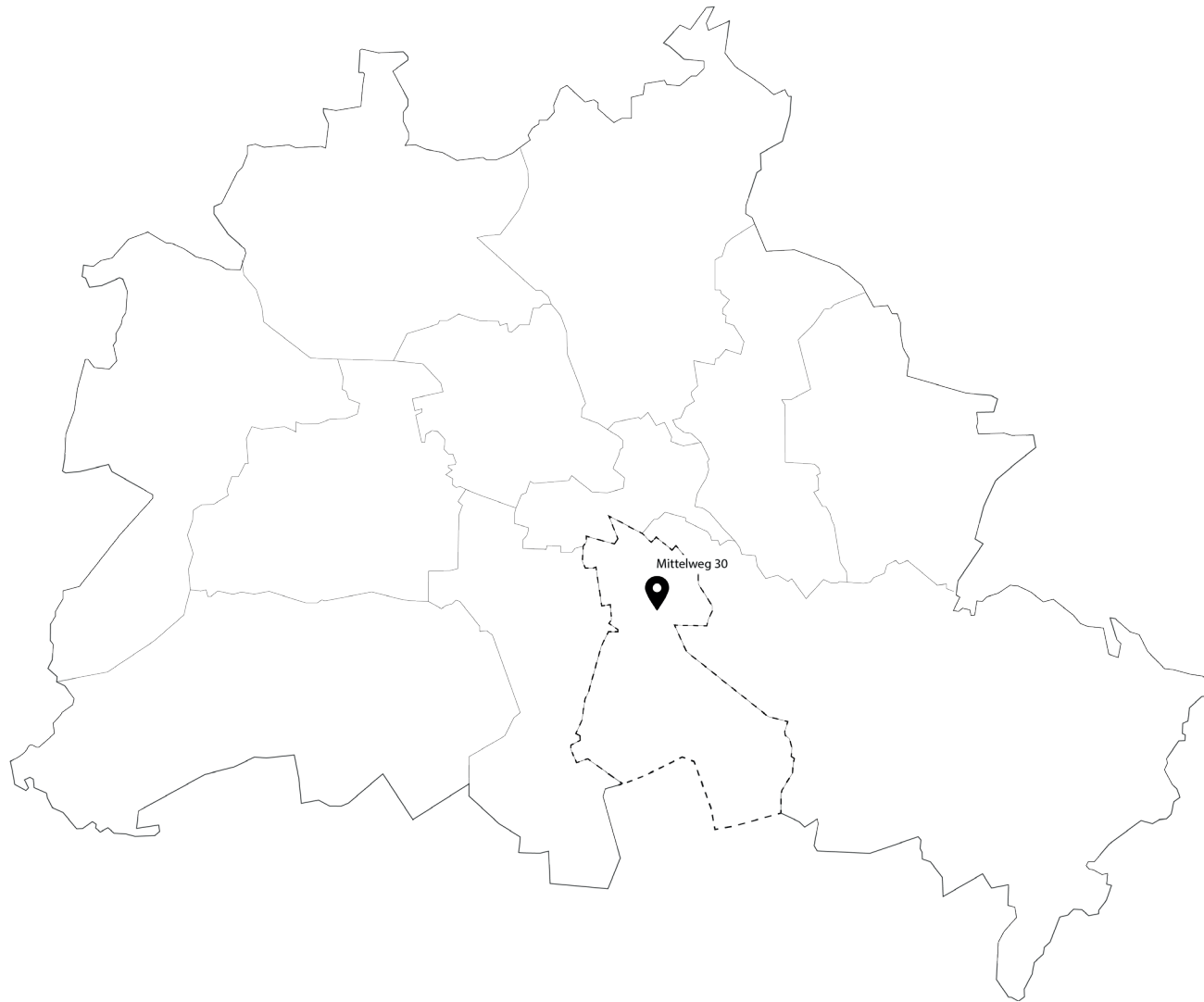
HIGH ACCESSIBILITY  
(transit possibilities)



PRESENCE KEY BUILDINGS  
(YWO, police, school)

research

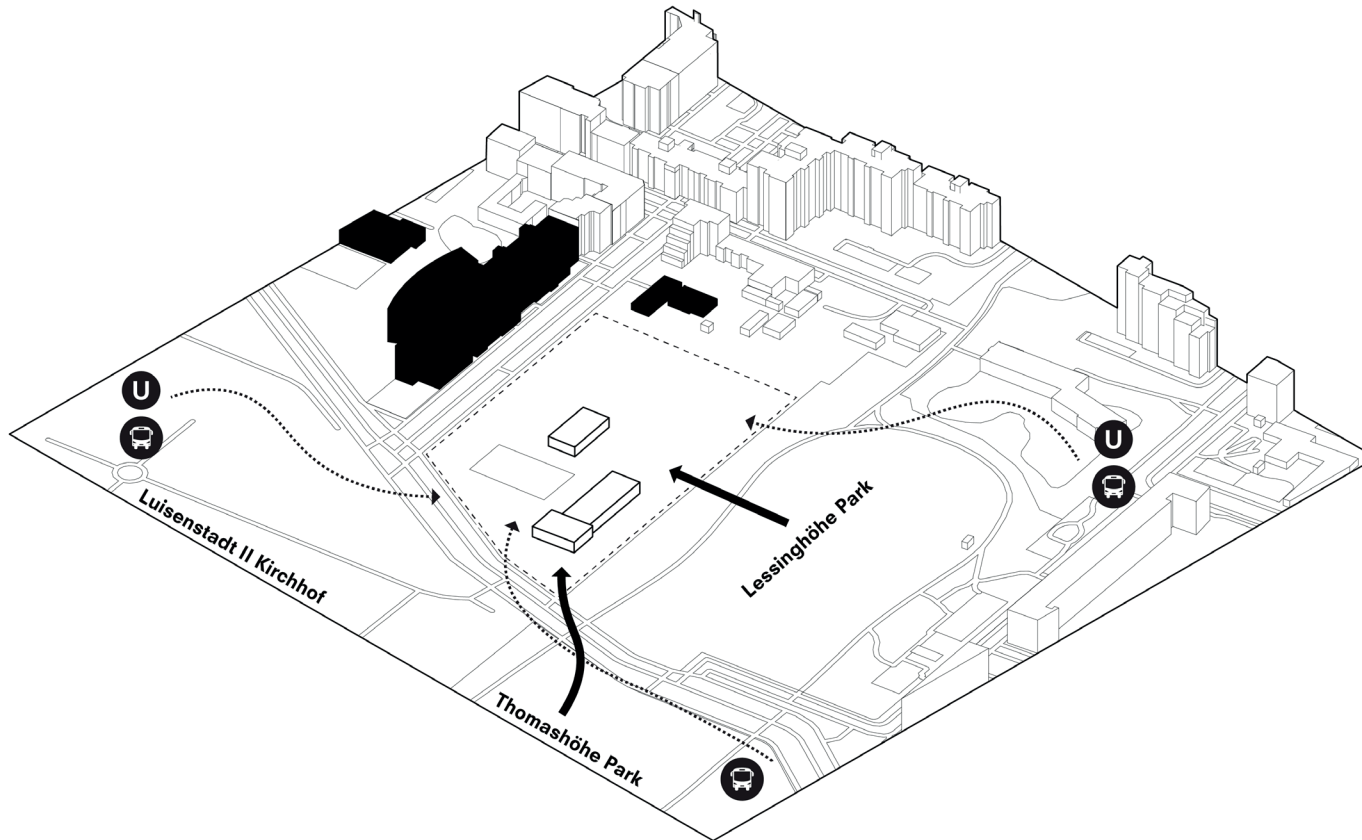
# CHILD-FRIENDLY LOCATION IN NEUKÖLLN



The Mittelweg 30 in Neukölln, Berlin

# CHILD-FRIENDLY LOCATION IN NEUKÖLLN

- U-Bahn
- Bus
- School
- YWO



The Mittelweg 30 in Neukölln, Berlin

# PROGRAM ANALYSIS



research  
**PROGRAM**



YOUTH COURT



JUVENILE ASSISTANCE SERVICES



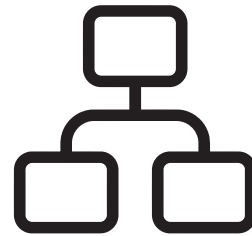
PROBATIONARY HOUSING

research

# PROGRAM DEMANDS



CORE FUNCTION



PROGRAM HIERARCHY



PUBLIC VS. PRIVATE FLOWS

research

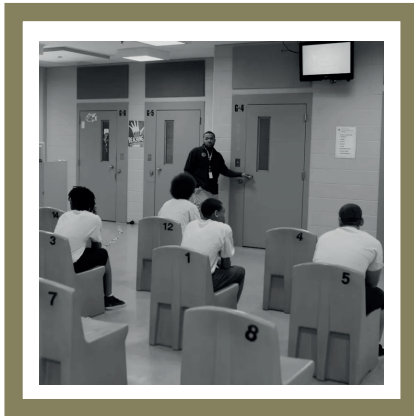
# CORE PROGRAM



YOUTH COURT

research

# CORE PROGRAM & MORE



YOUTH ASSISTANCE  
SERVICES



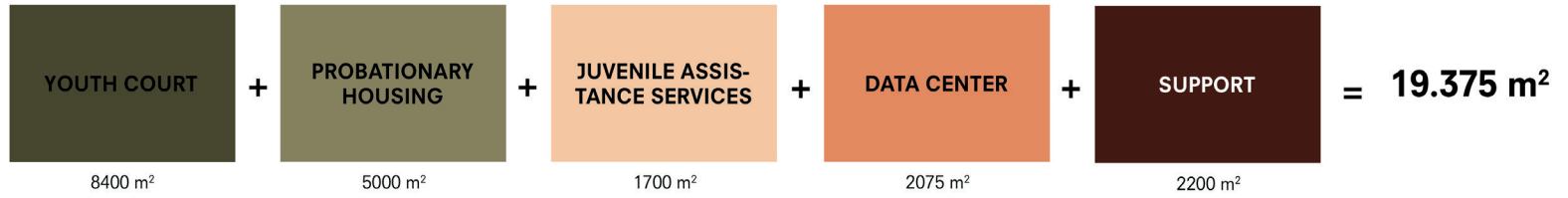
YOUTH COURT



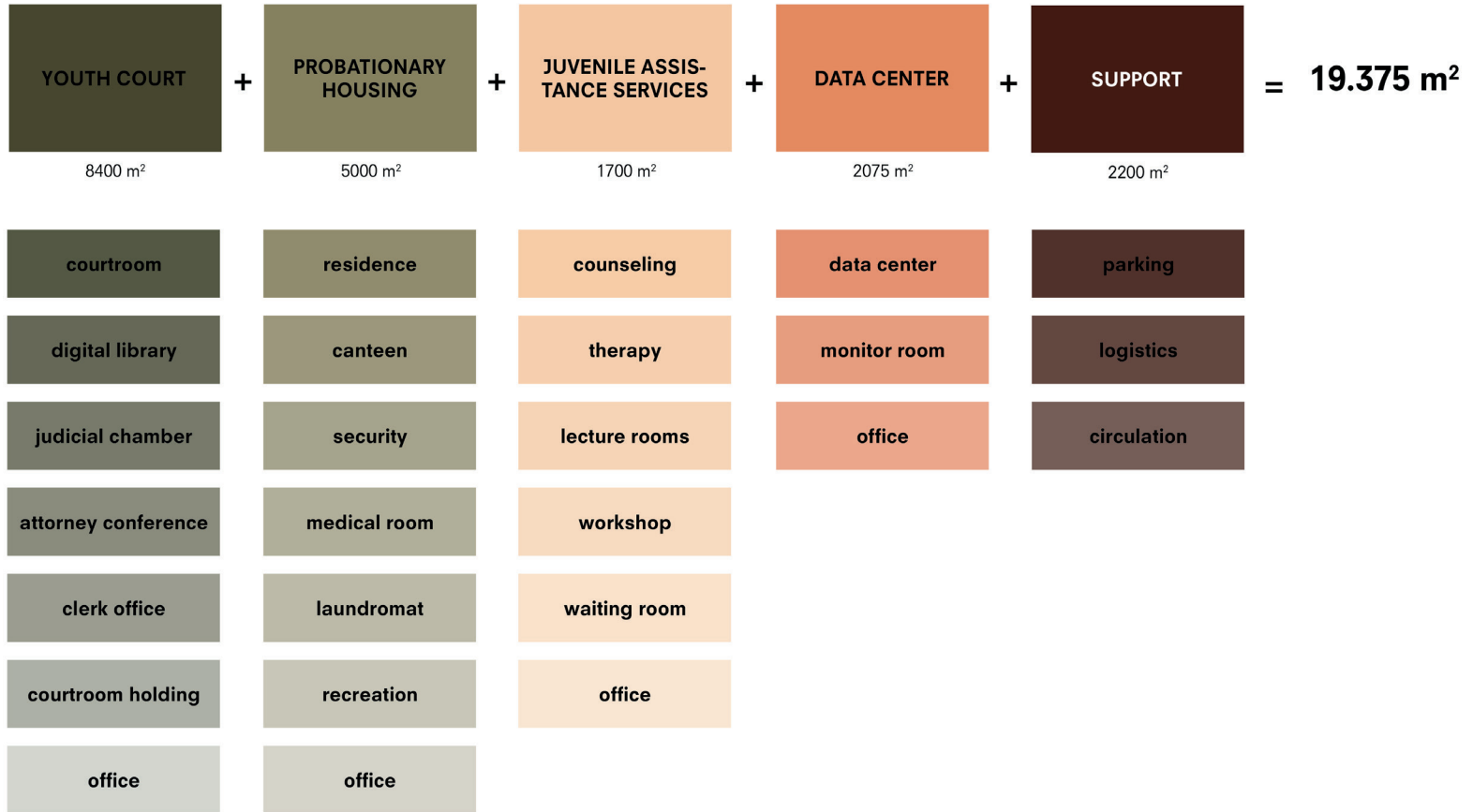
PROBATIONARY  
HOUSING

research

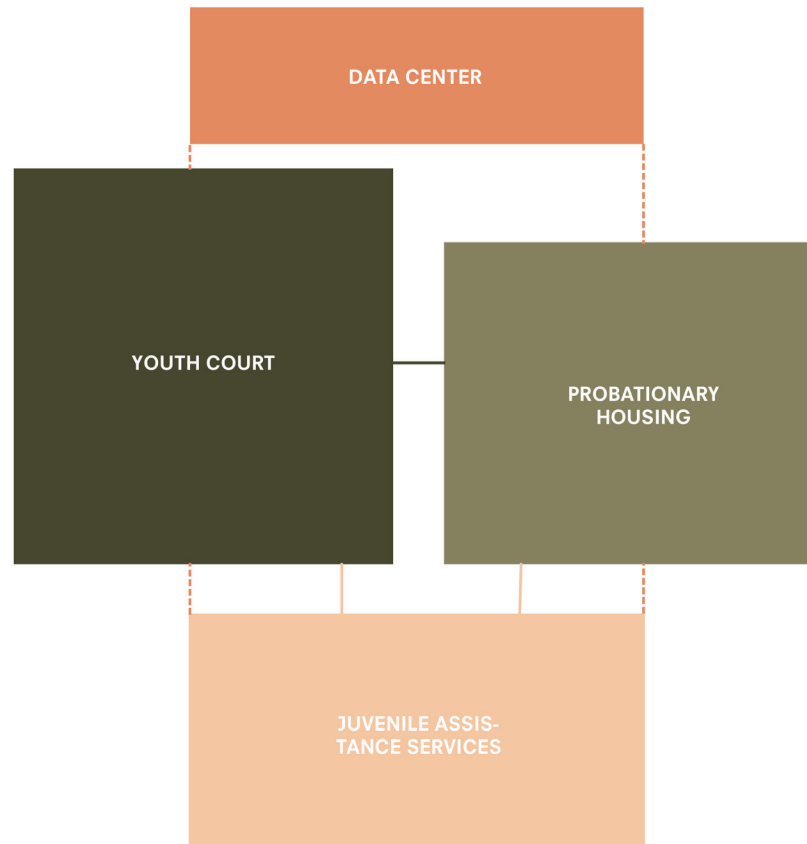
# PROGRAM DIVISION



# PROGRAM DIVISION

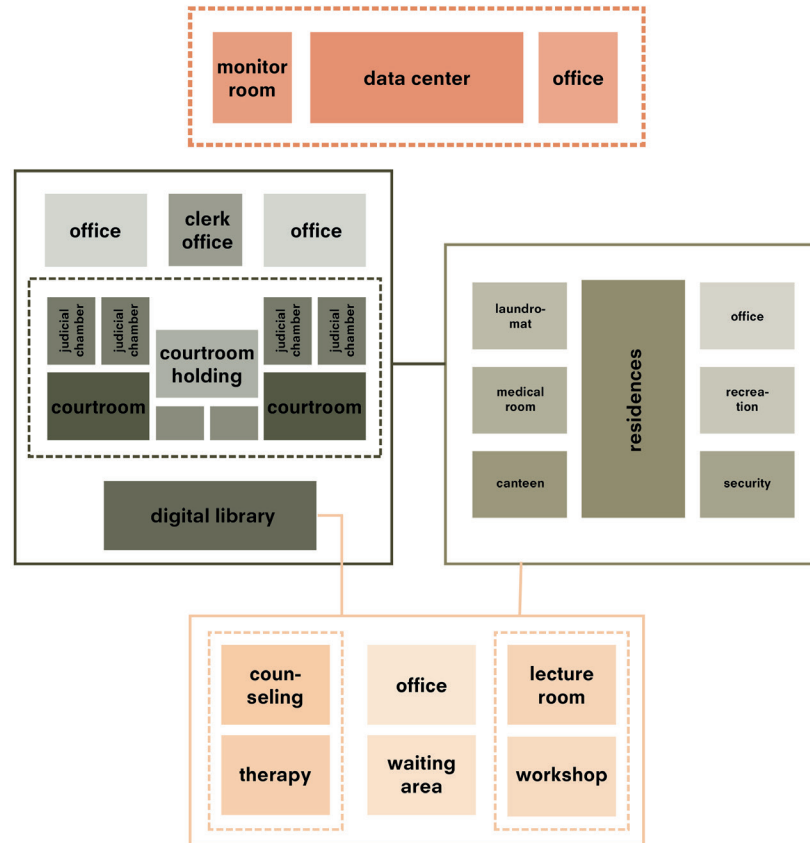


# PROGRAM RELATIONS



The Probationary Housing and Courthouse work independently, the Juvenile Assistance Services are hence provided to both

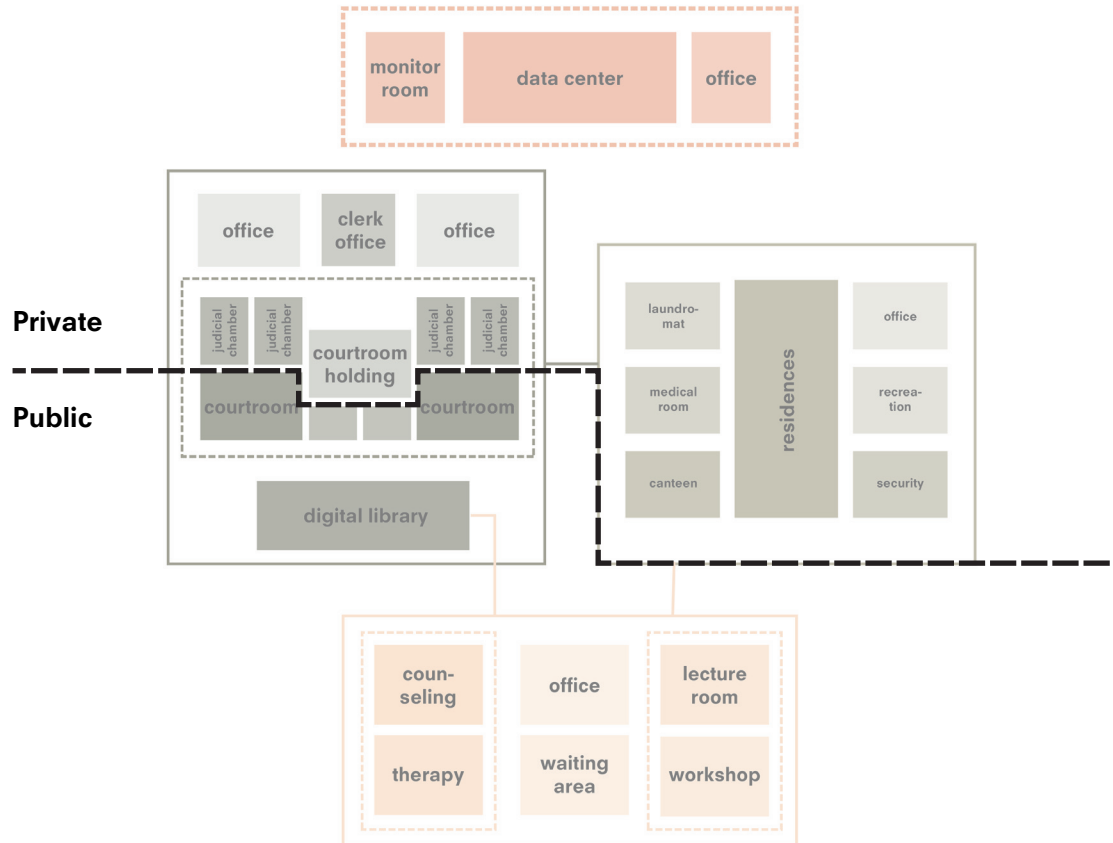
# PROGRAM RELATIONS



Clusters (dashed bozes) are visible in the Relation Scheme which will also appear as such in the plans



# PUBLIC VS. PRIVATE

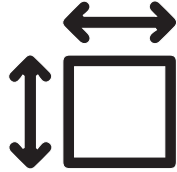


Program is divided in Public vs. Private to show general separation of flows

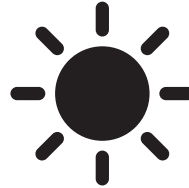
# MASS ANALYSIS

# URBAN IMPLEMENTATION

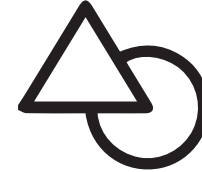
CLIENT



Size



Natural Light

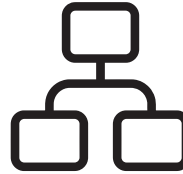


Quality of Space

PROGRAM



Core Functionality

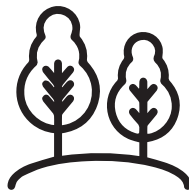


Relationship



Public vs. Private

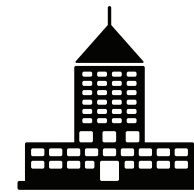
SITE



Greenery



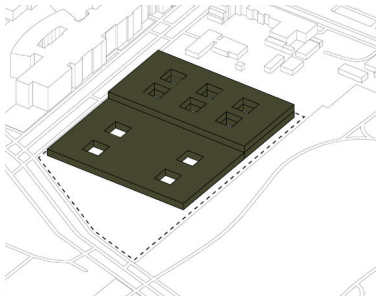
Accessibility



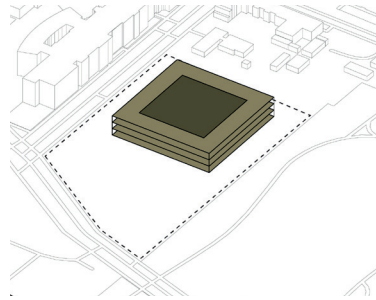
Landmark

# 3X3 MASS ANALYSIS

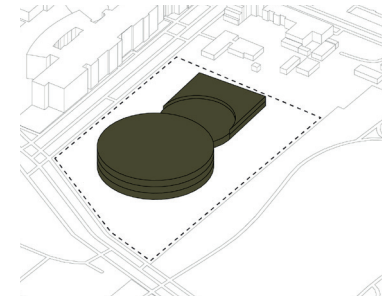
CLIENT



Size

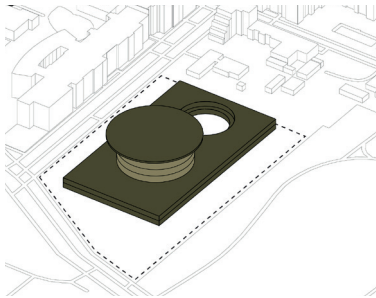


Natural Light

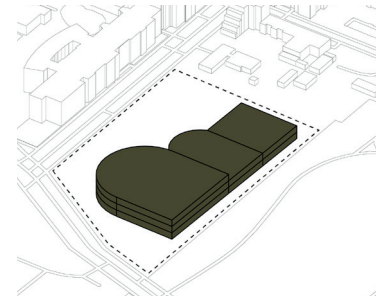


Quality of Space

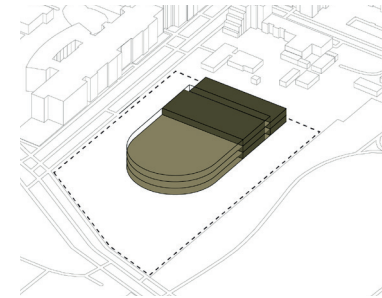
PROGRAM



Core Functionality

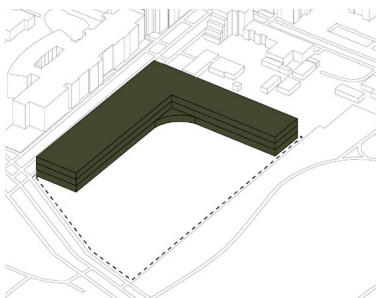


Relationship

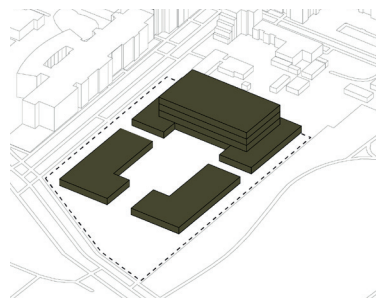


Public vs. Private

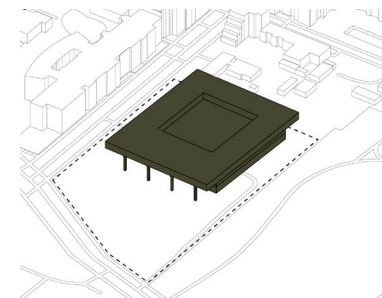
SITE



Greenery



Accessibility

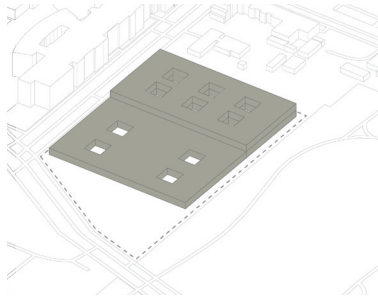


Landmark

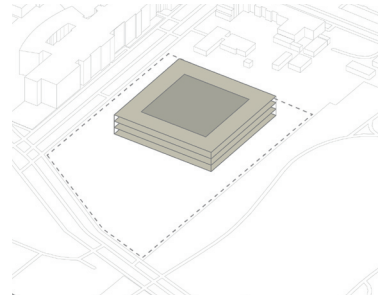
research

# CHOSEN MASS

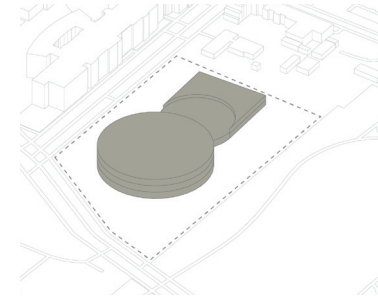
CLIENT



Size

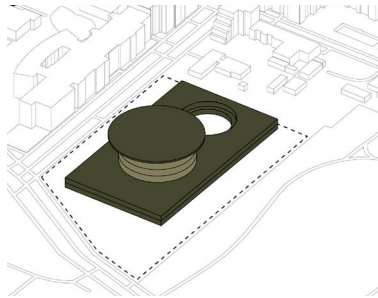


Natural Light

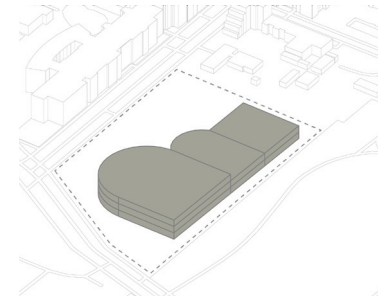


Quality of Space

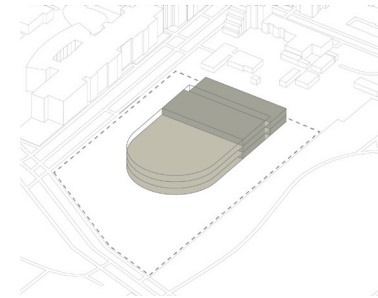
PROGRAM



Core Functionality

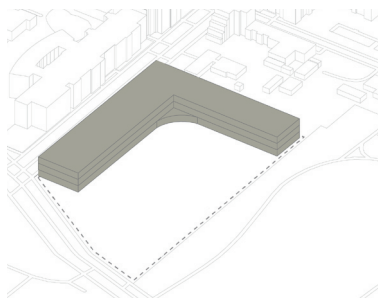


Relationship

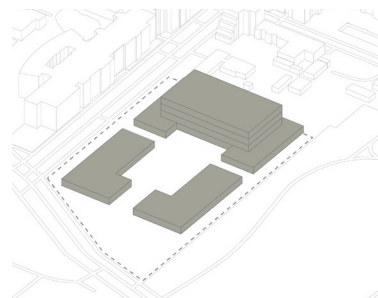


Public vs. Private

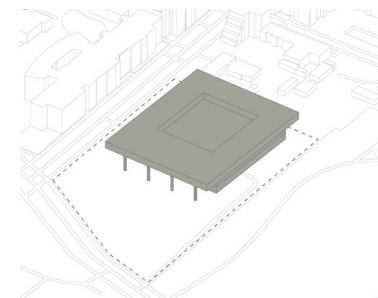
SITE



Greenery



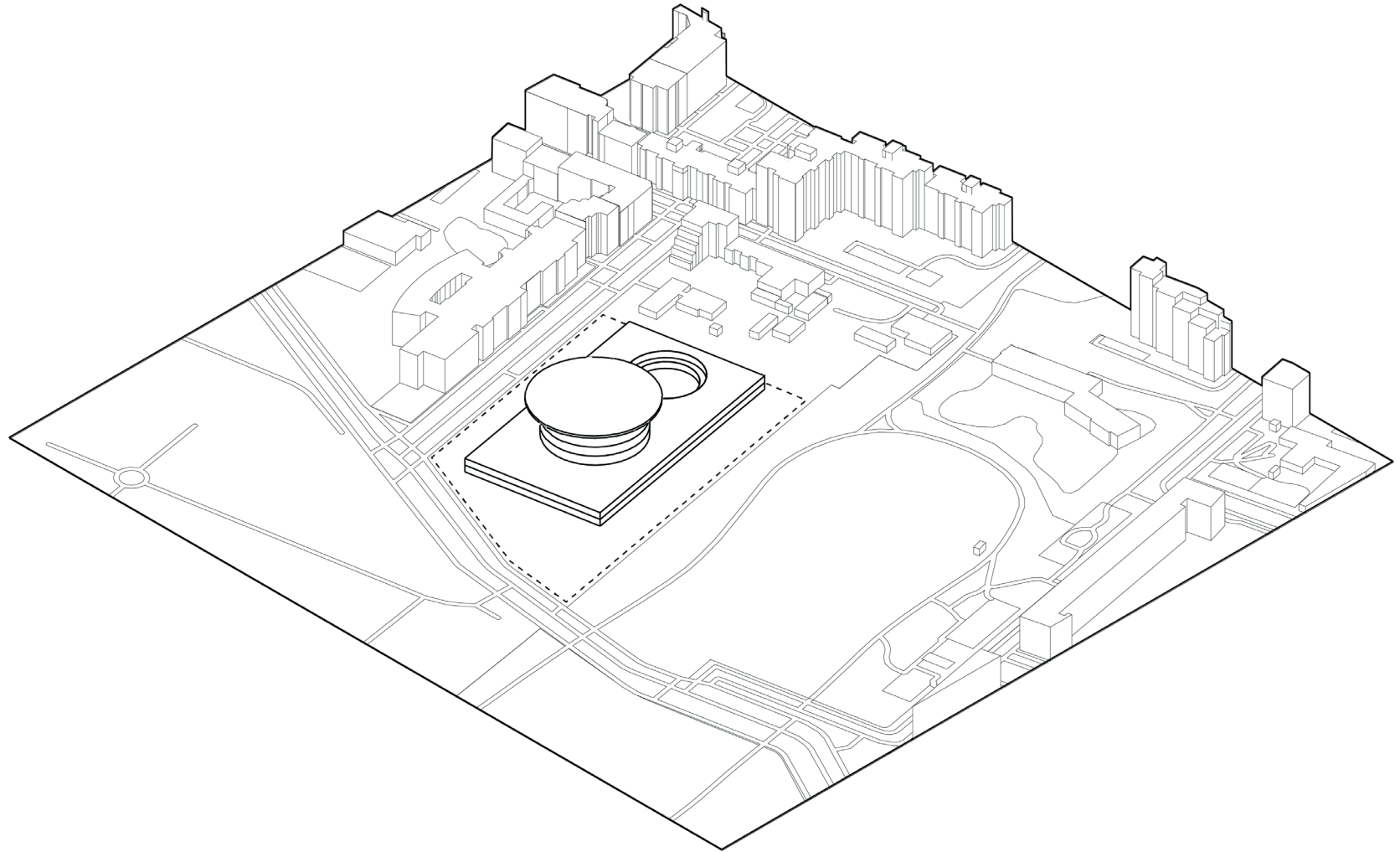
Accessibility



Landmark

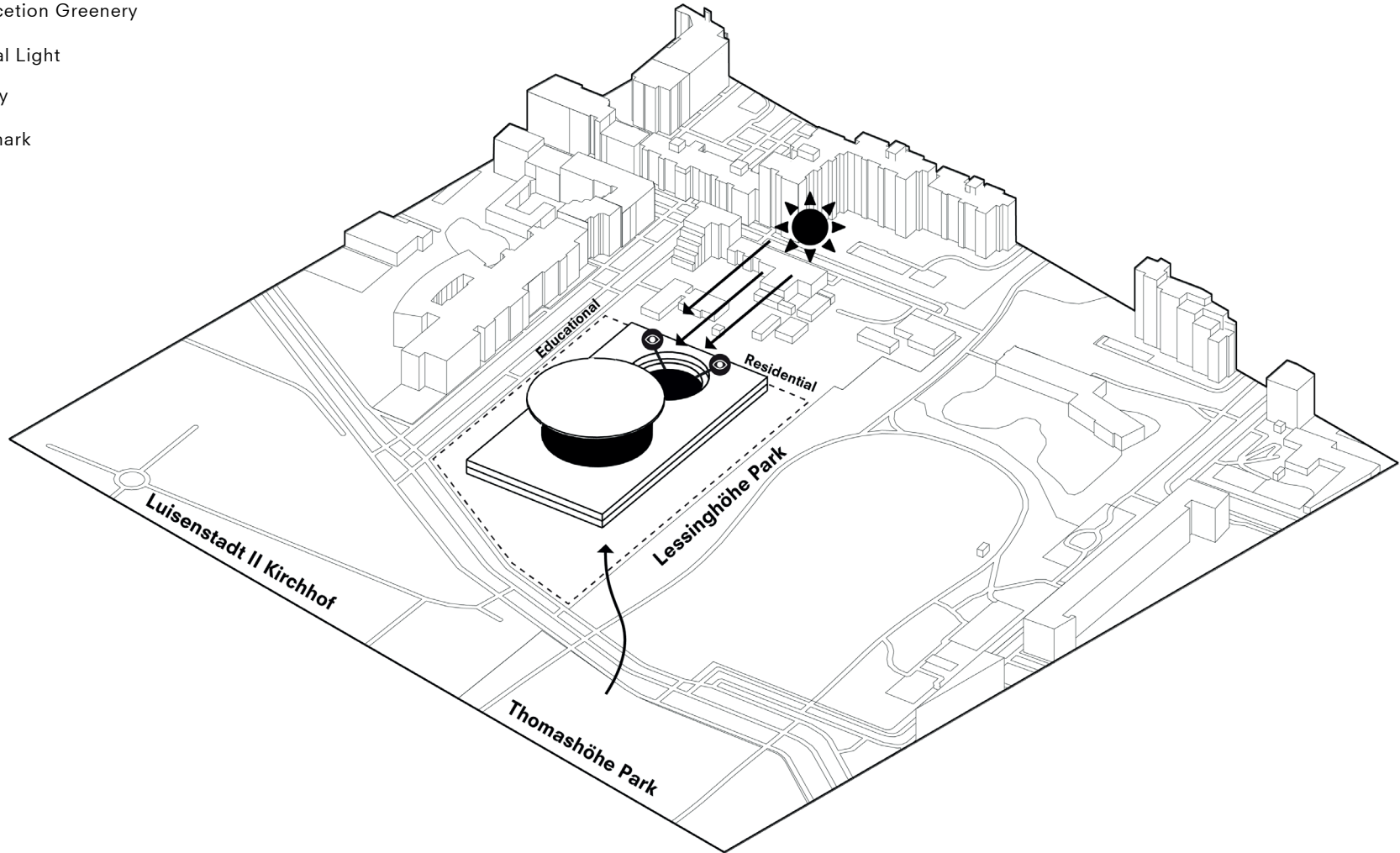
research

# URBAN IMPLEMENTATION



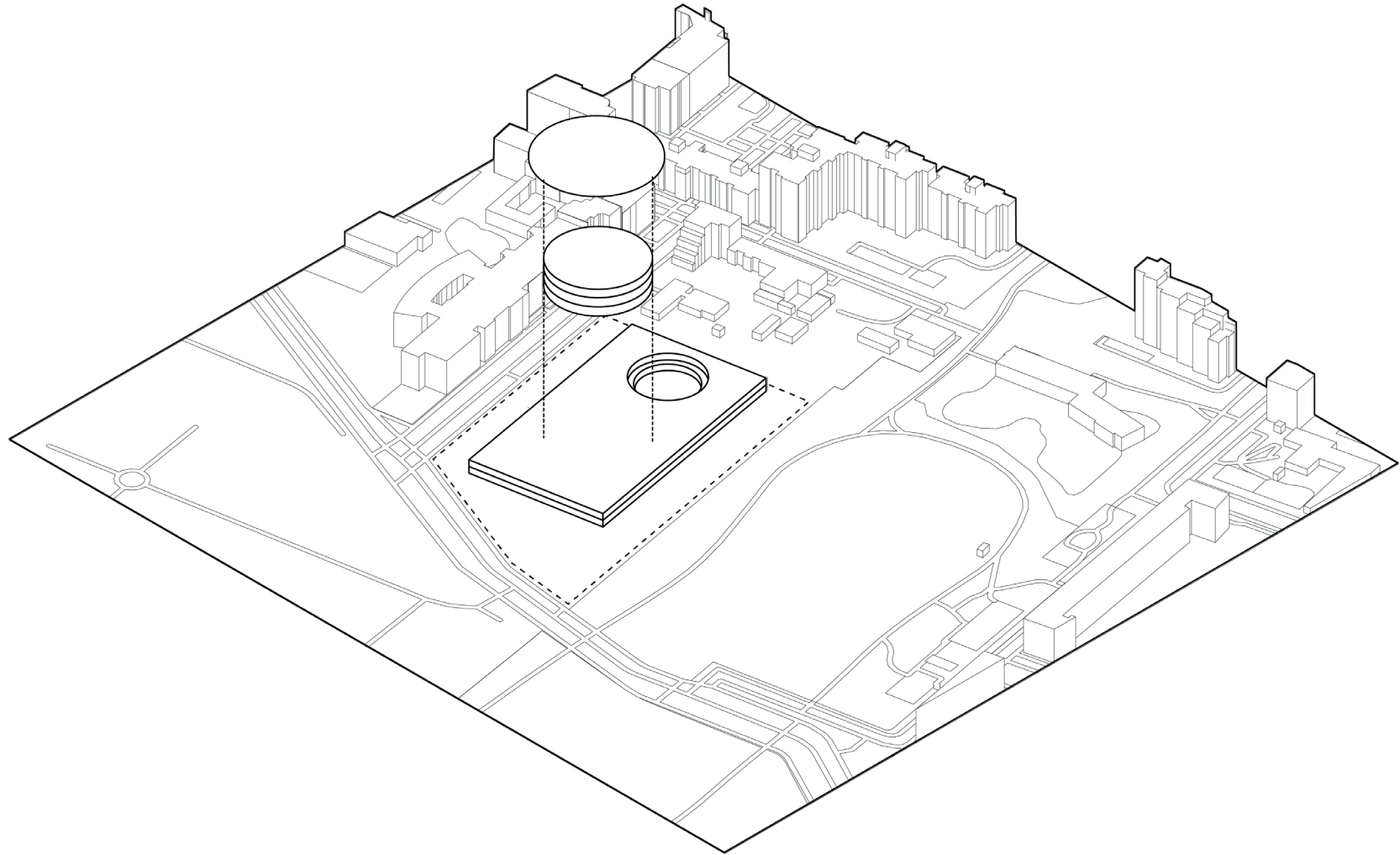
# CONCEPT CRITIQUE

- Size
- Core Functionality
- Accessibility
- Connction Greenery
- ▨ Natural Light
- Privacy
- Landmark



research

# CONCEPT MORPHOLOGY TO DESIGN

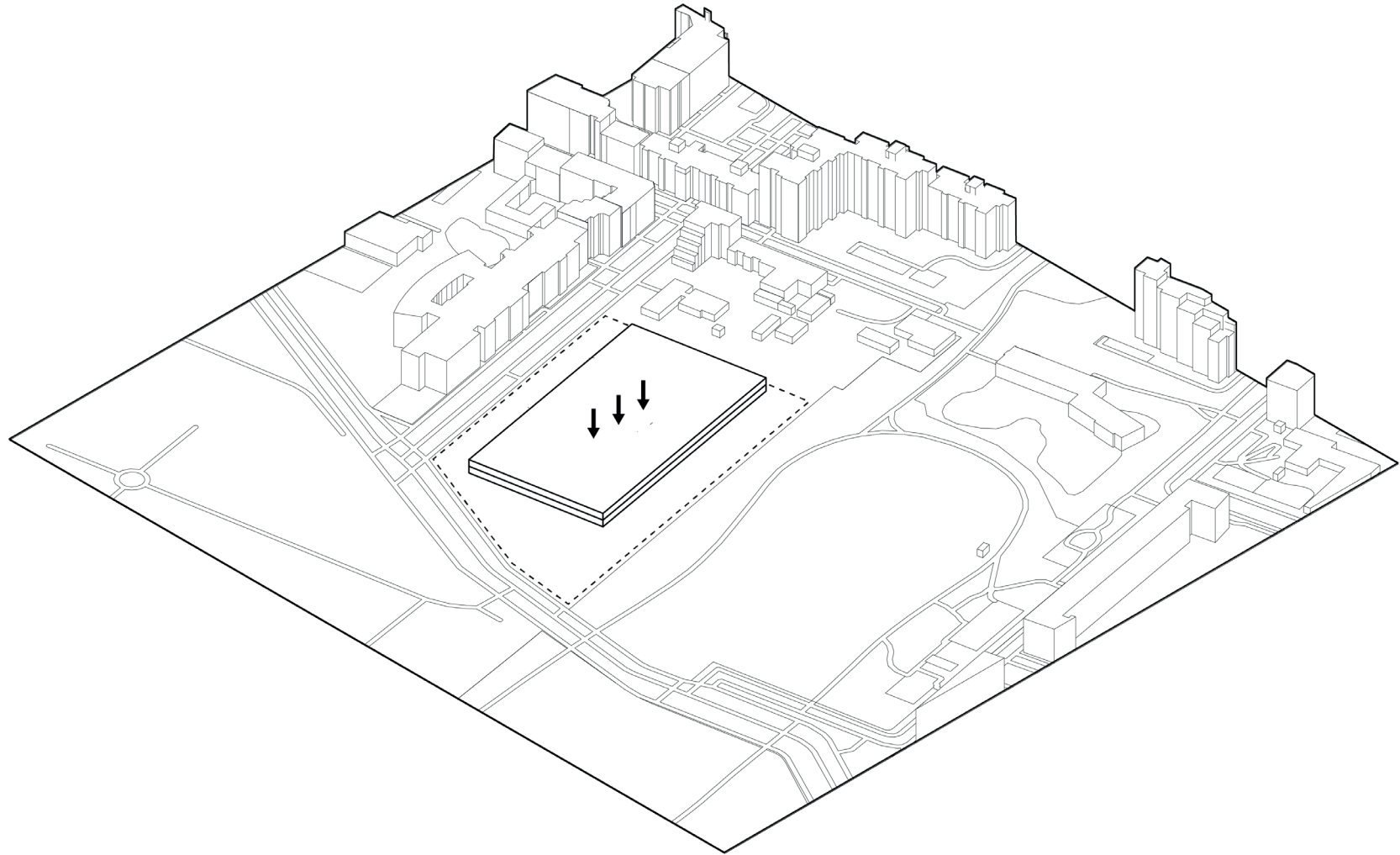


Concept mass is taken apart



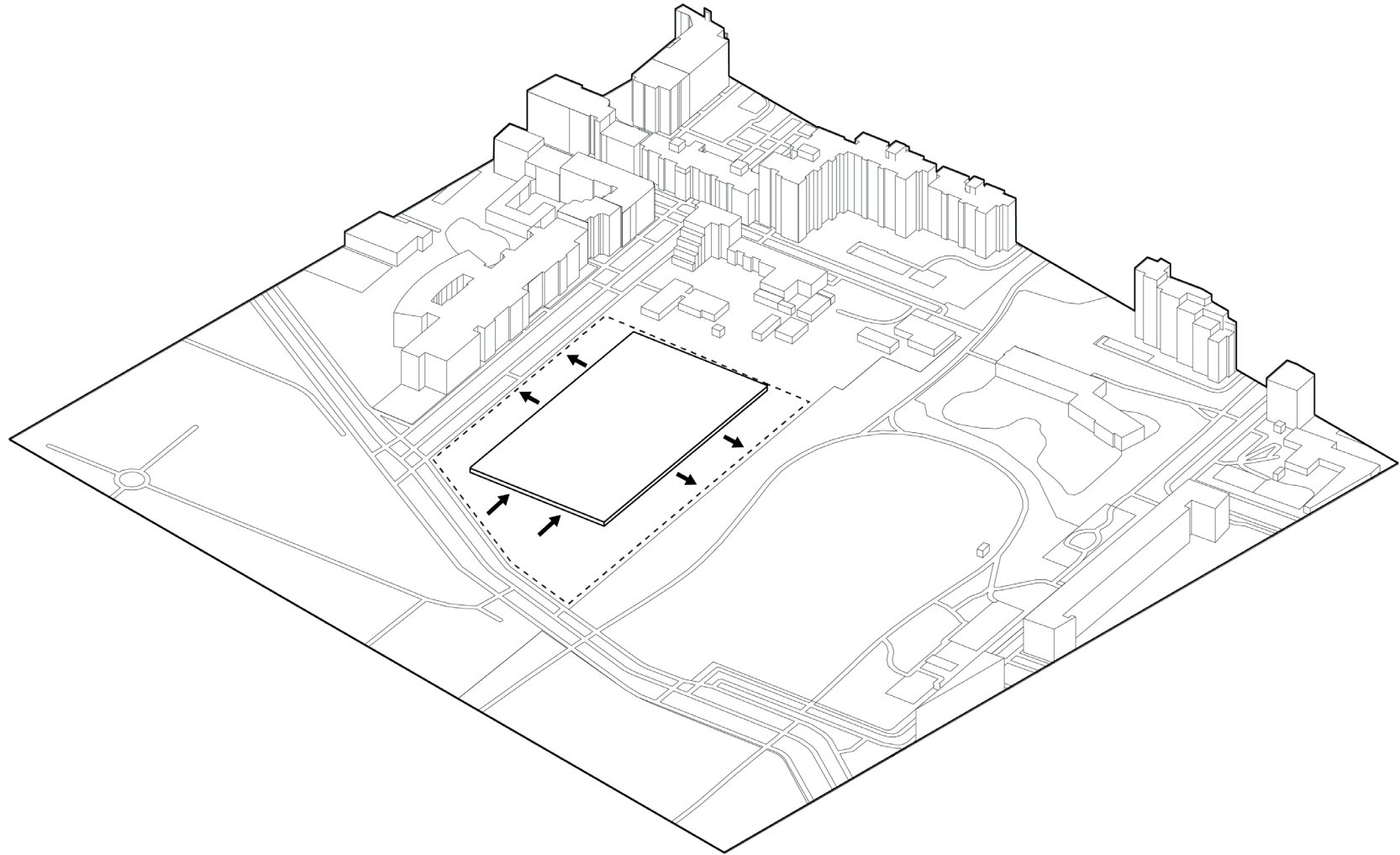
research

# CONCEPT MORPHOLOGY TO DESIGN



Plinth is pushed down, to the scale of a child

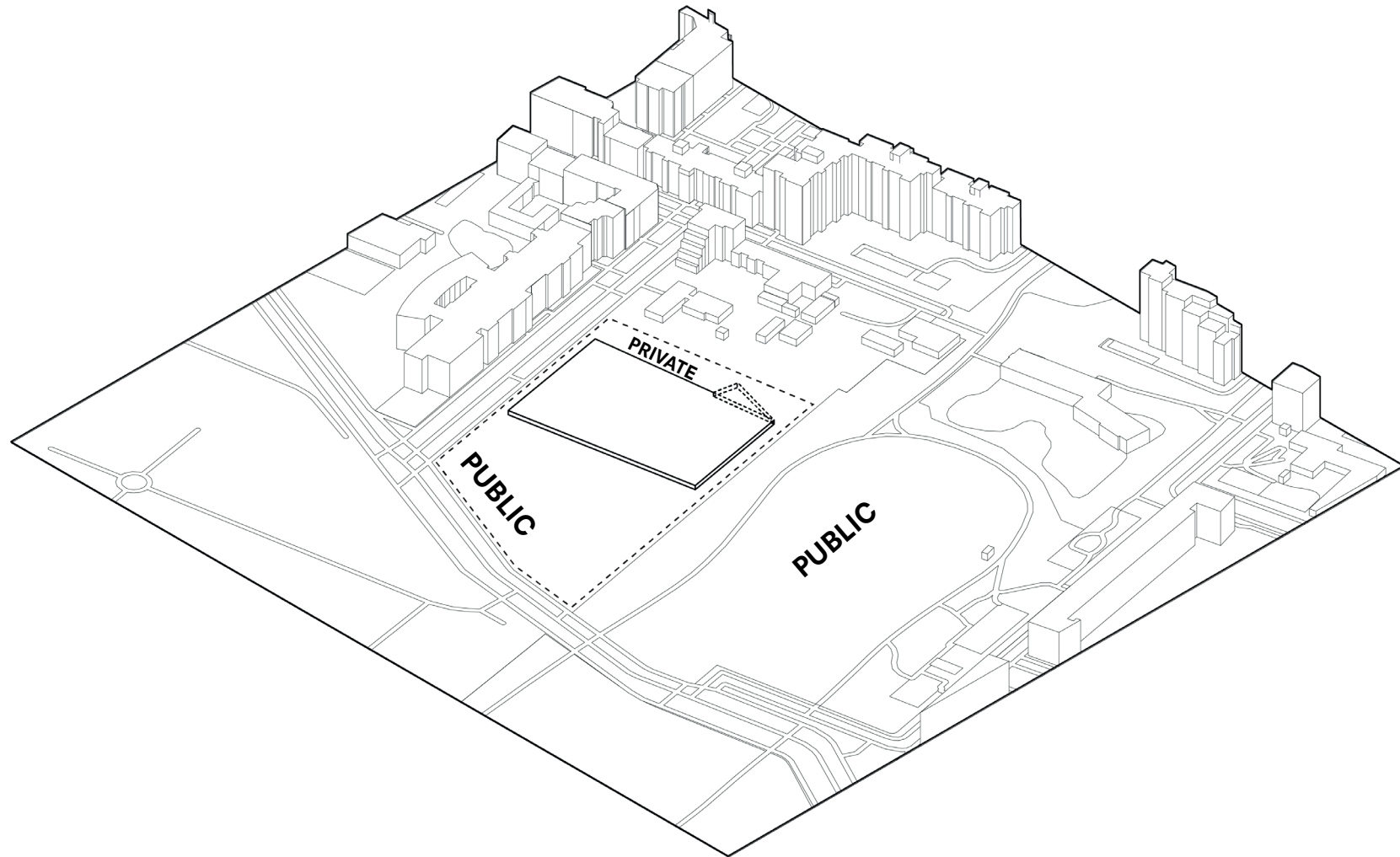
# CONCEPT MORPHOLOGY TO DESIGN



Plinth is pushed in and out to the sides, shortening the plinth from the street

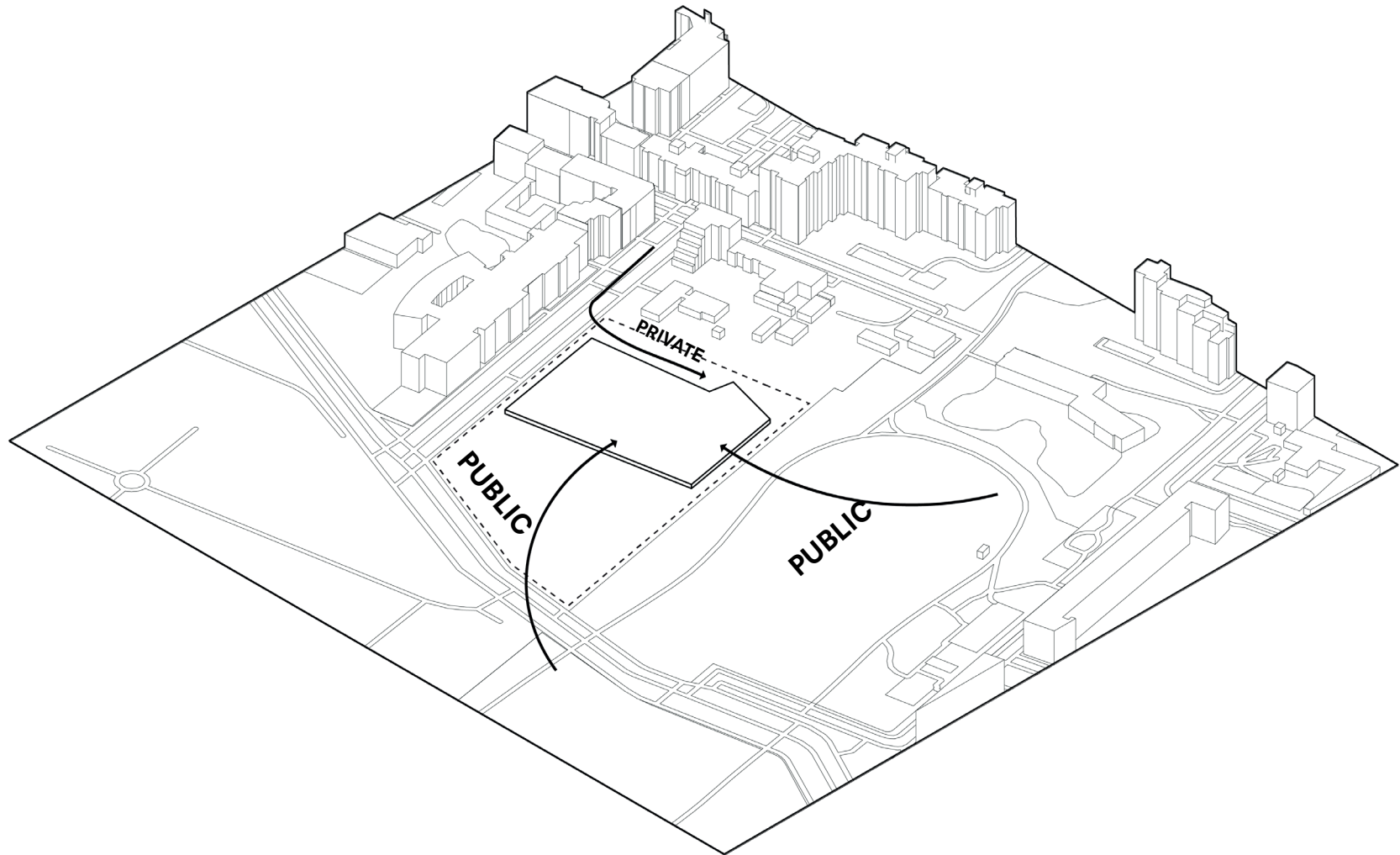
research

# CONCEPT MORPHOLOGY TO DESIGN



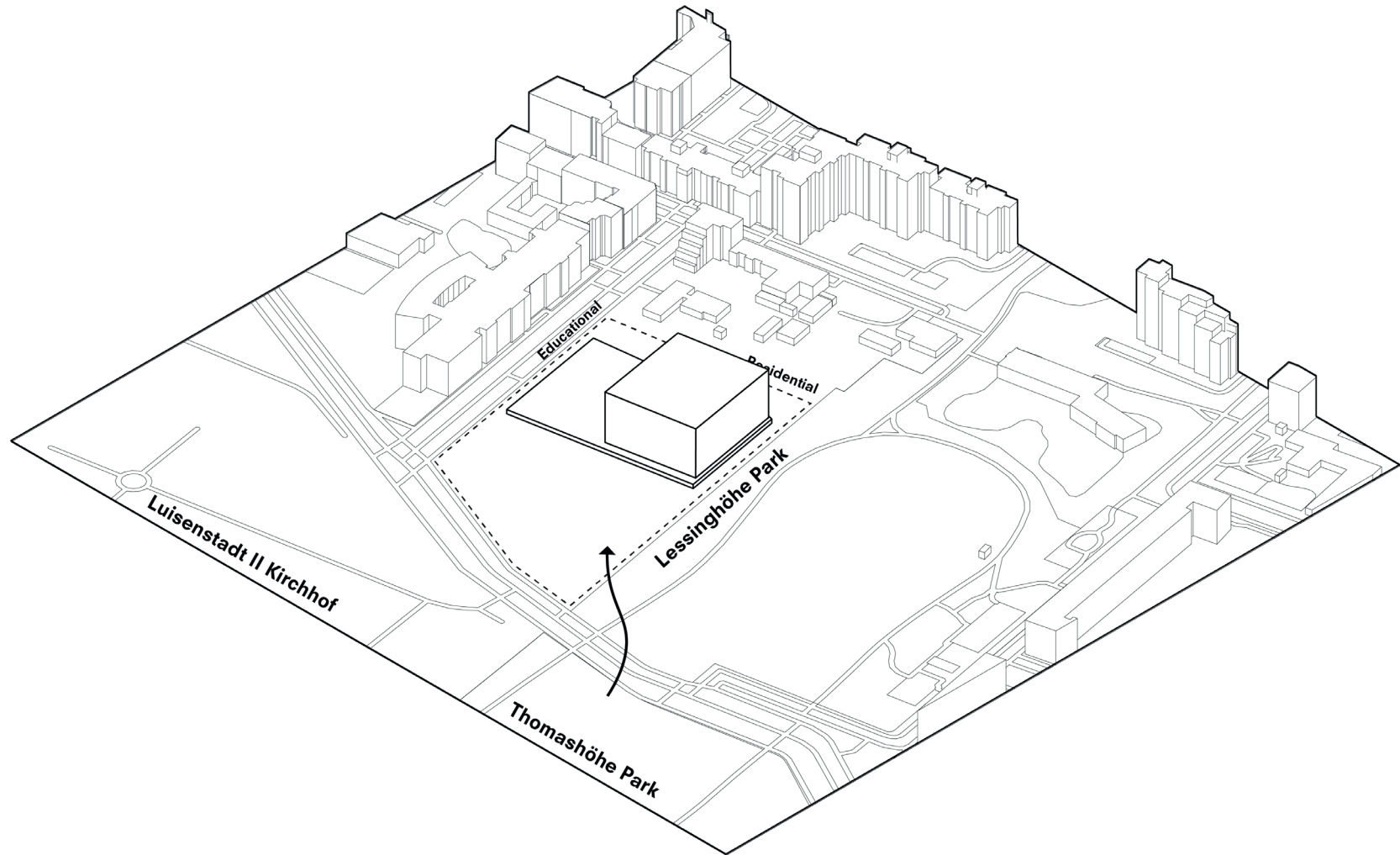
Due to low plinth it is easily accessible

# CONCEPT MORPHOLOGY TO DESIGN



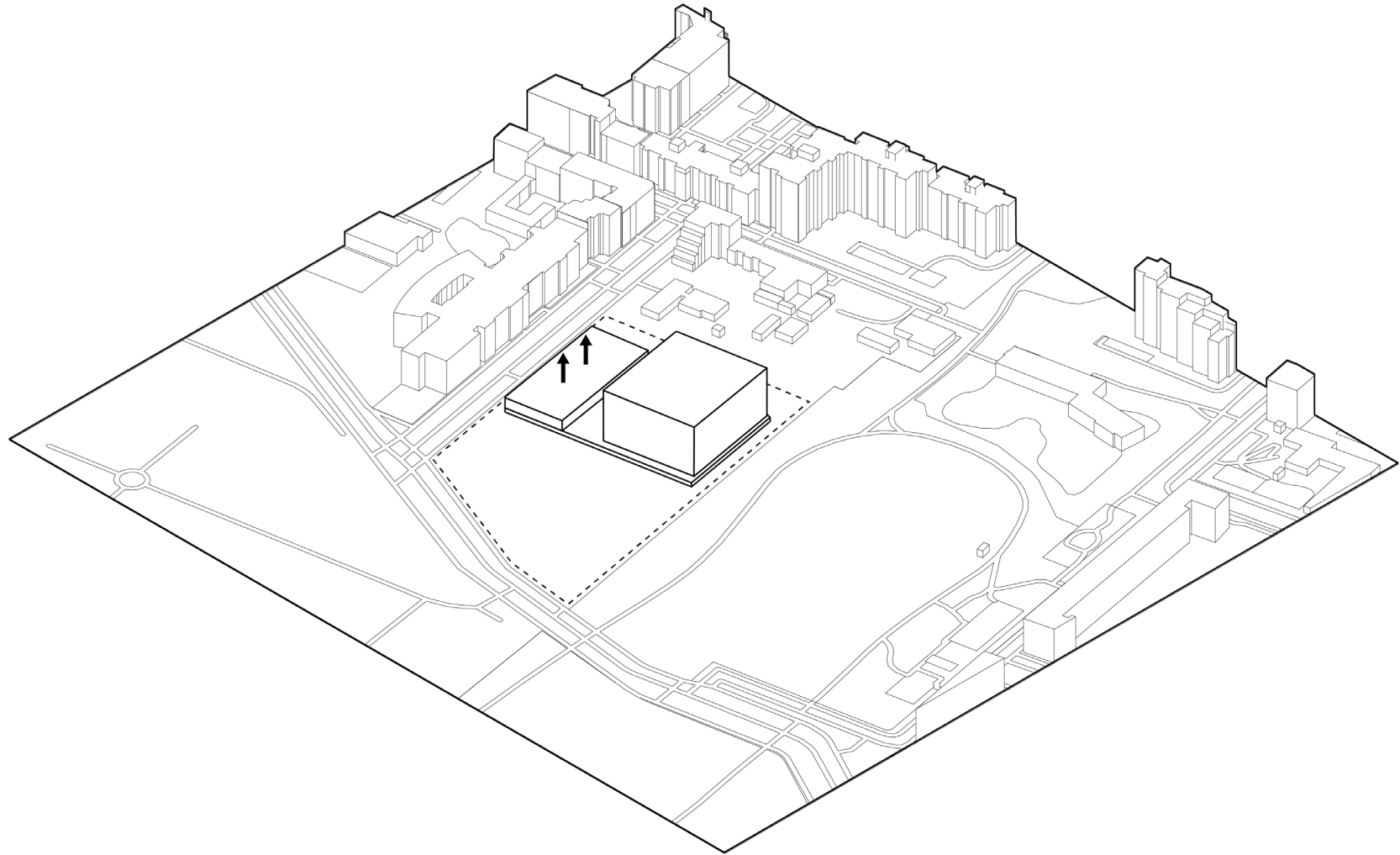
Due to low plinth it is easily accessible

# CONCEPT MORPHOLOGY TO DESIGN



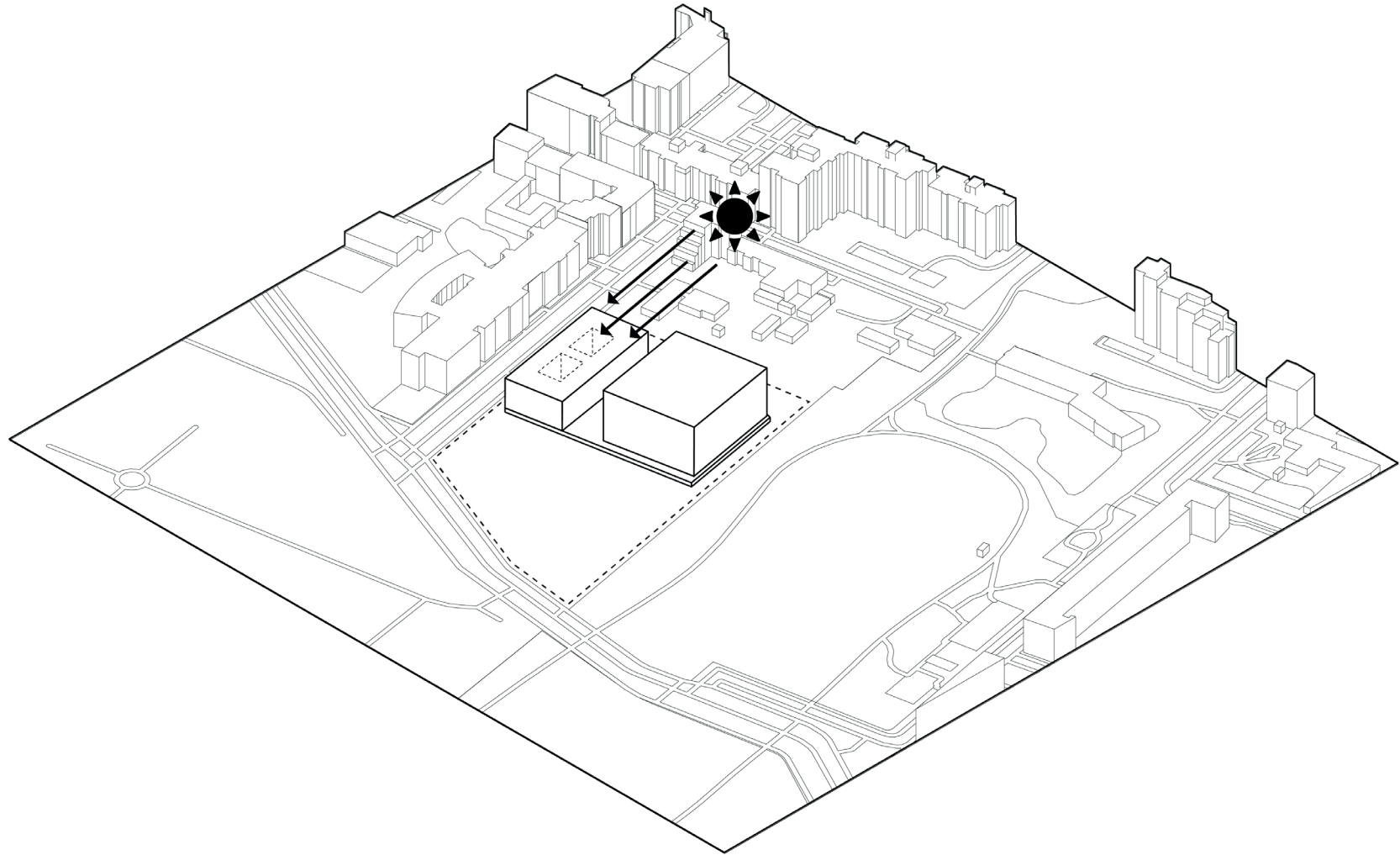
Orient core to the park, creating a connection with the parks

# CONCEPT MORPHOLOGY TO DESIGN



Raise Probationary Housing due to privacy issues

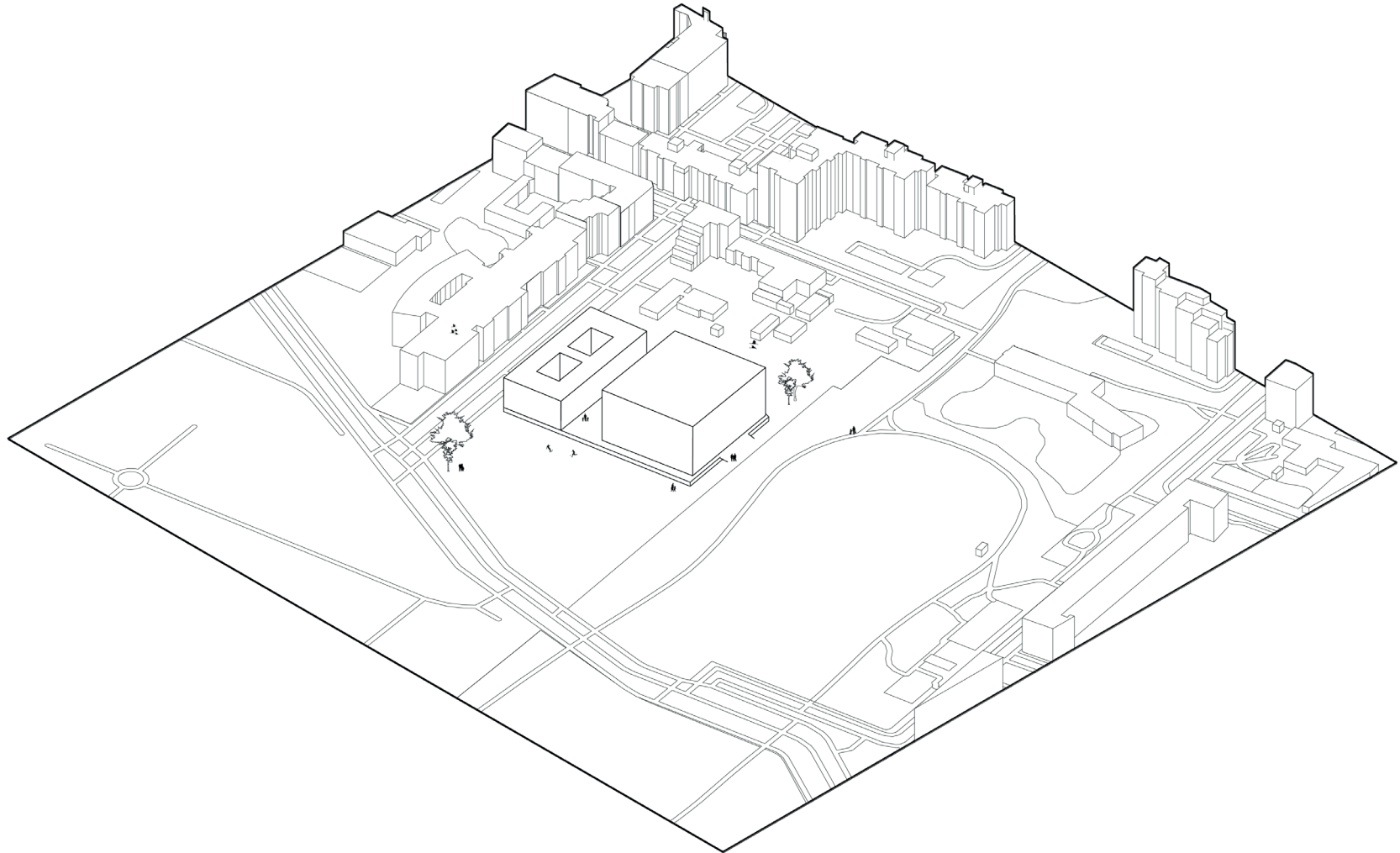
# CONCEPT MORPHOLOGY TO DESIGN



Creating openings in building block to allow light to enter the building

research

# VISION FOR THE NEIGHBORHOOD



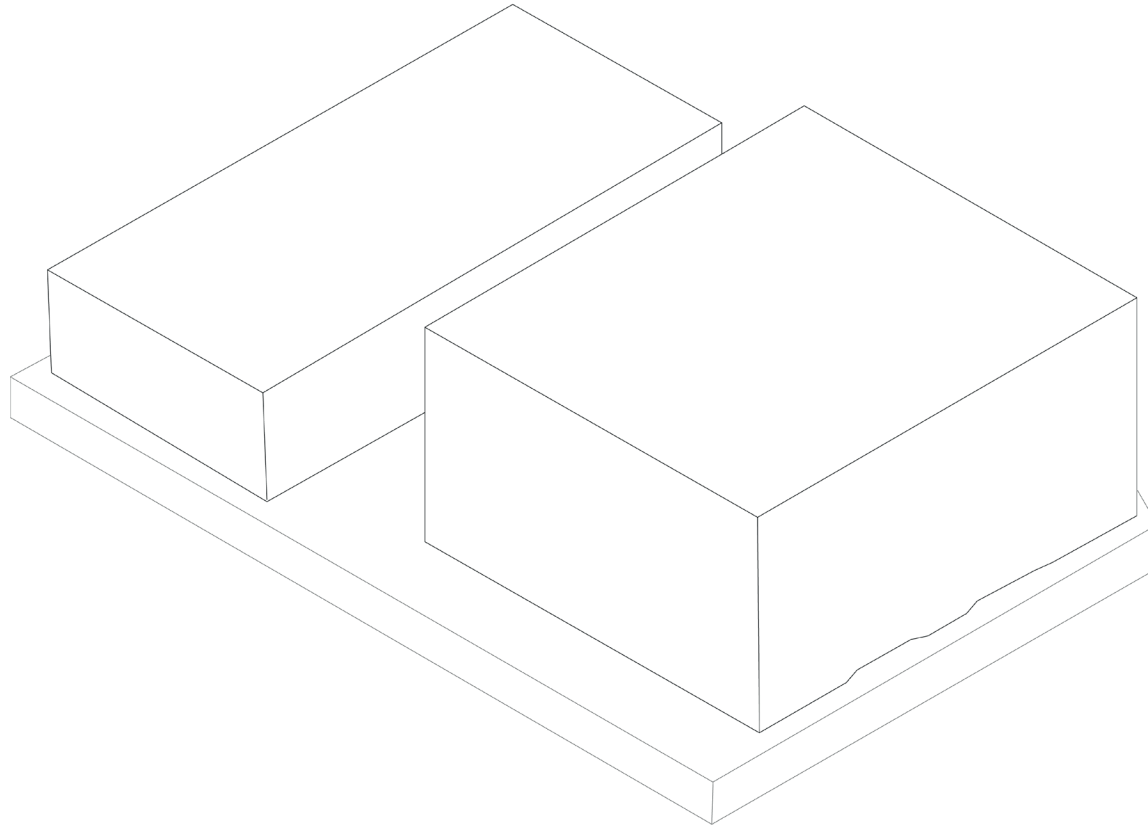
Neighborhood where courthouse acts as a meeting point for juveniles to get together



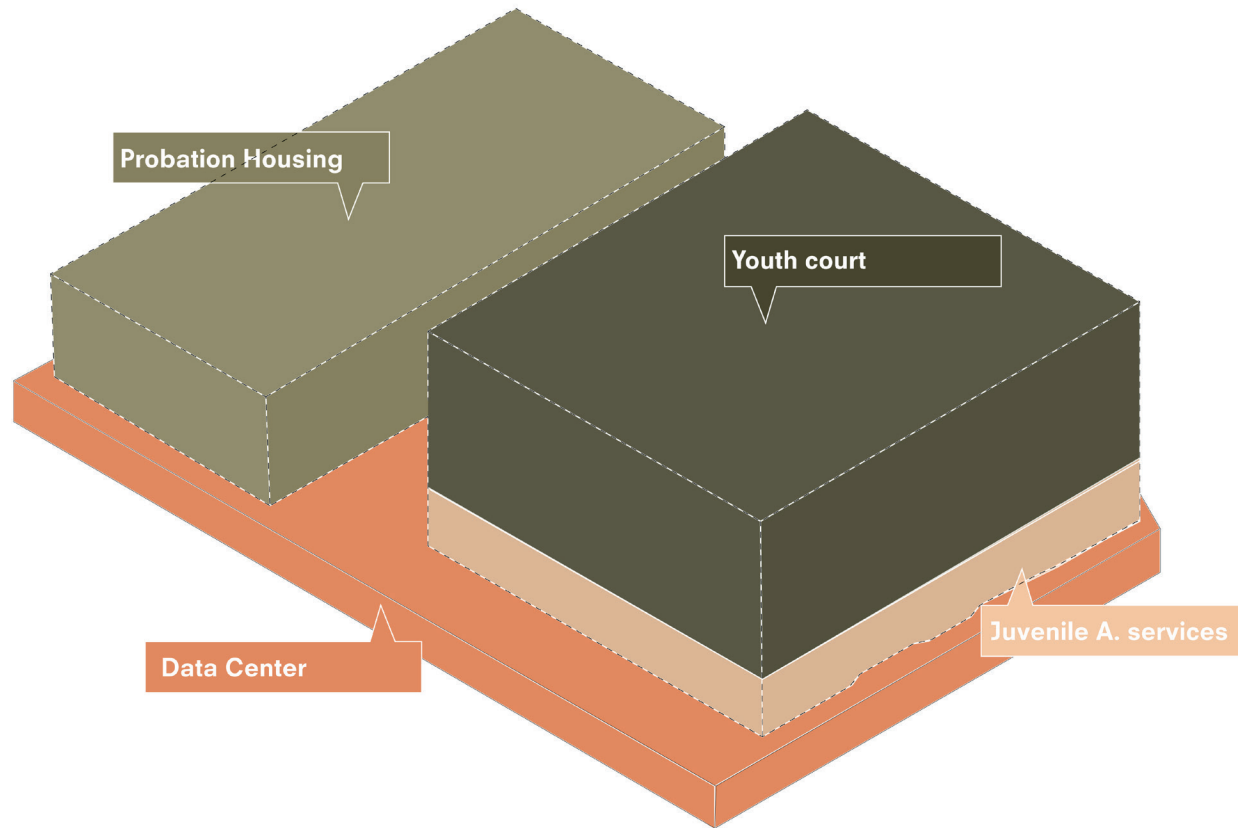
# BUILDING SYSTEM

building system

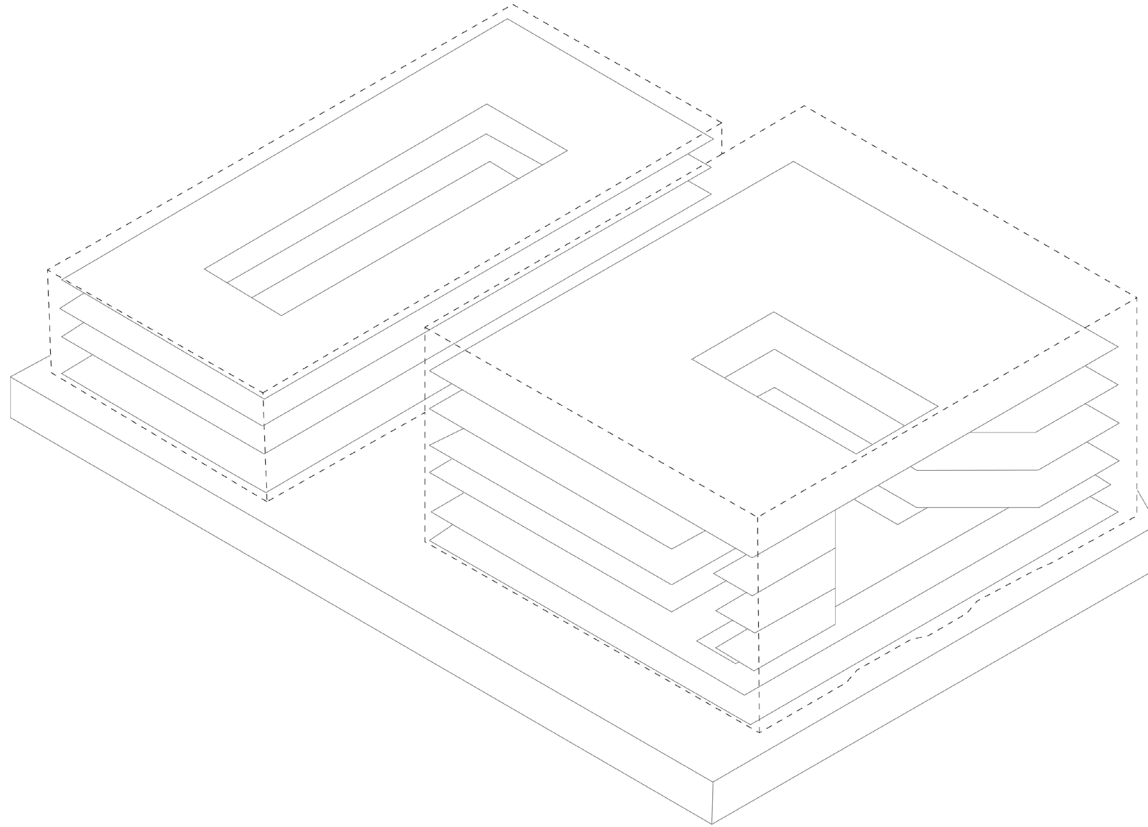
# BUILDING MASS



# MASS PROGRAM DIVISION

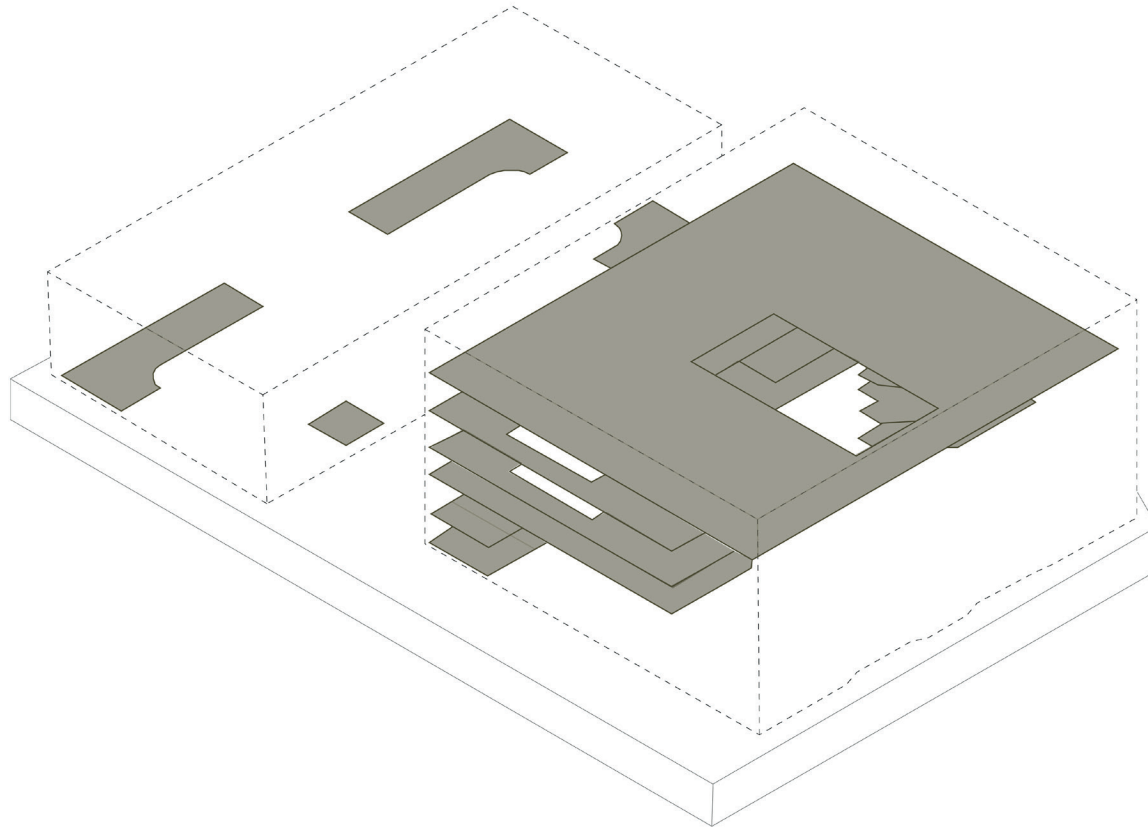


building system  
**FLOORS**



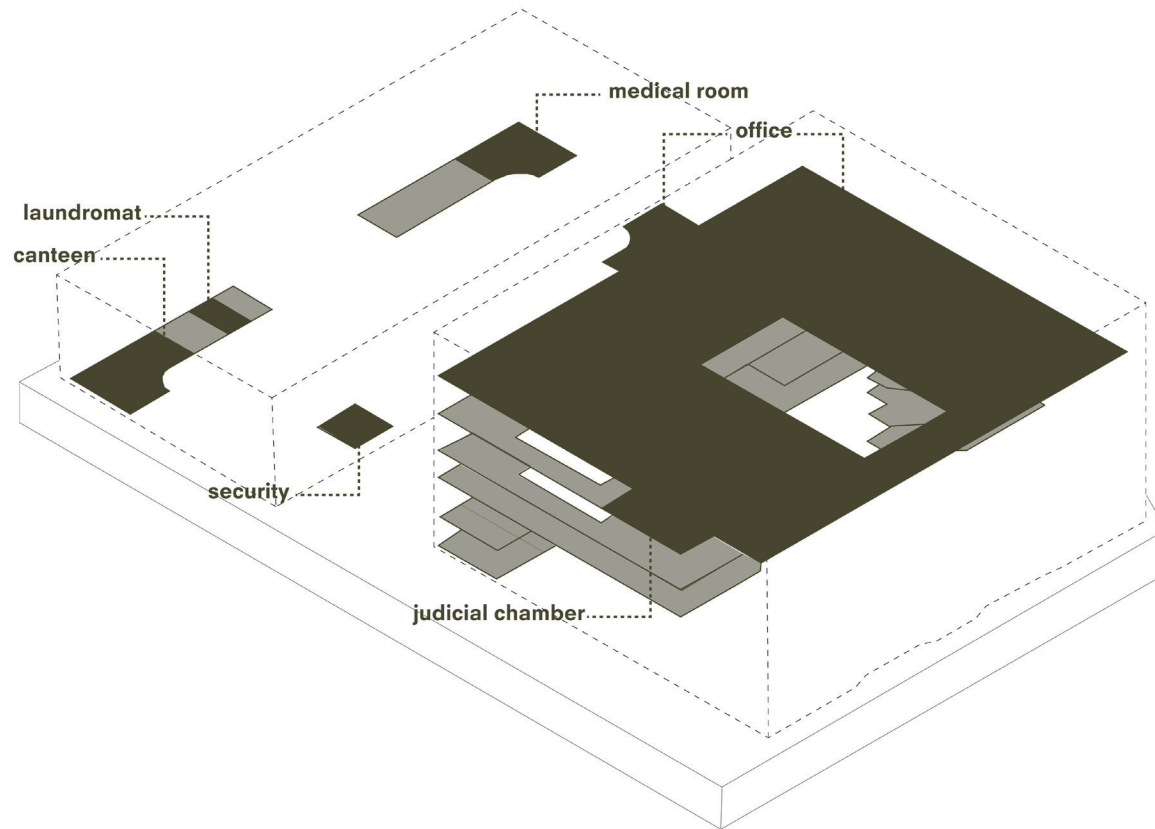
building system

# PRIVATE FLOORS



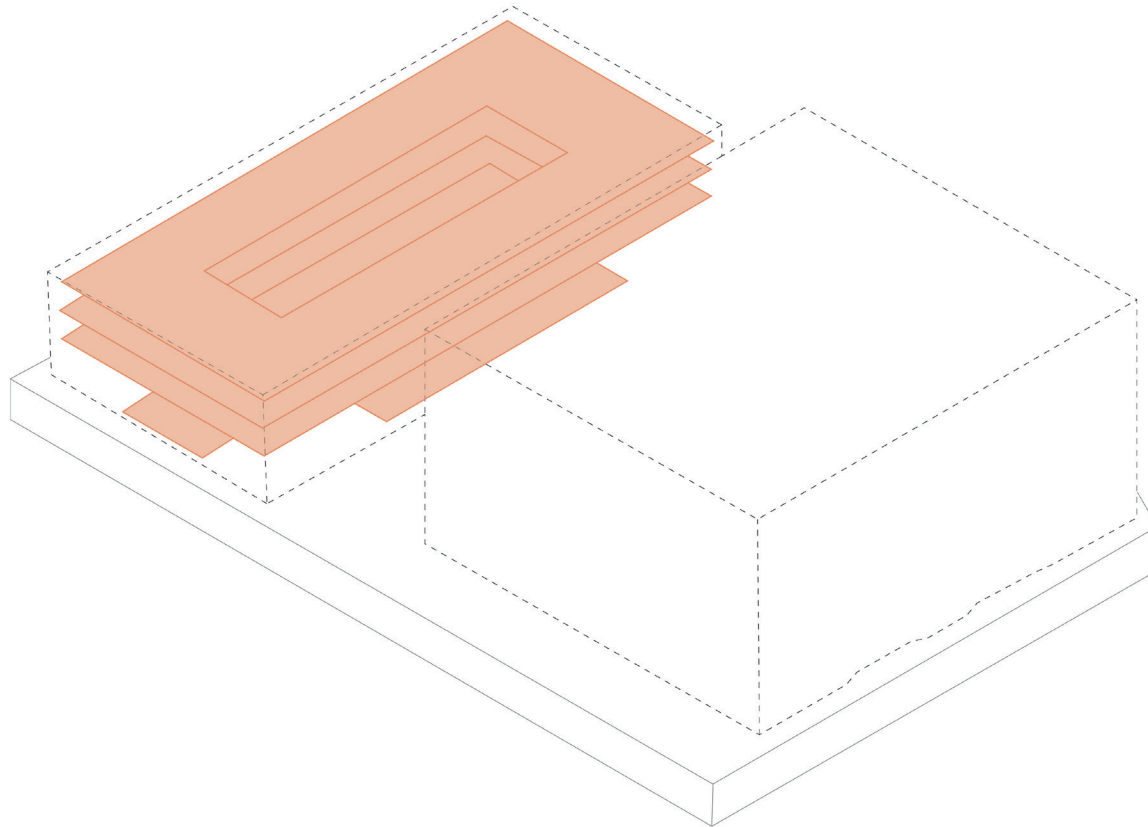
building system

# PRIVATE PROGRAM



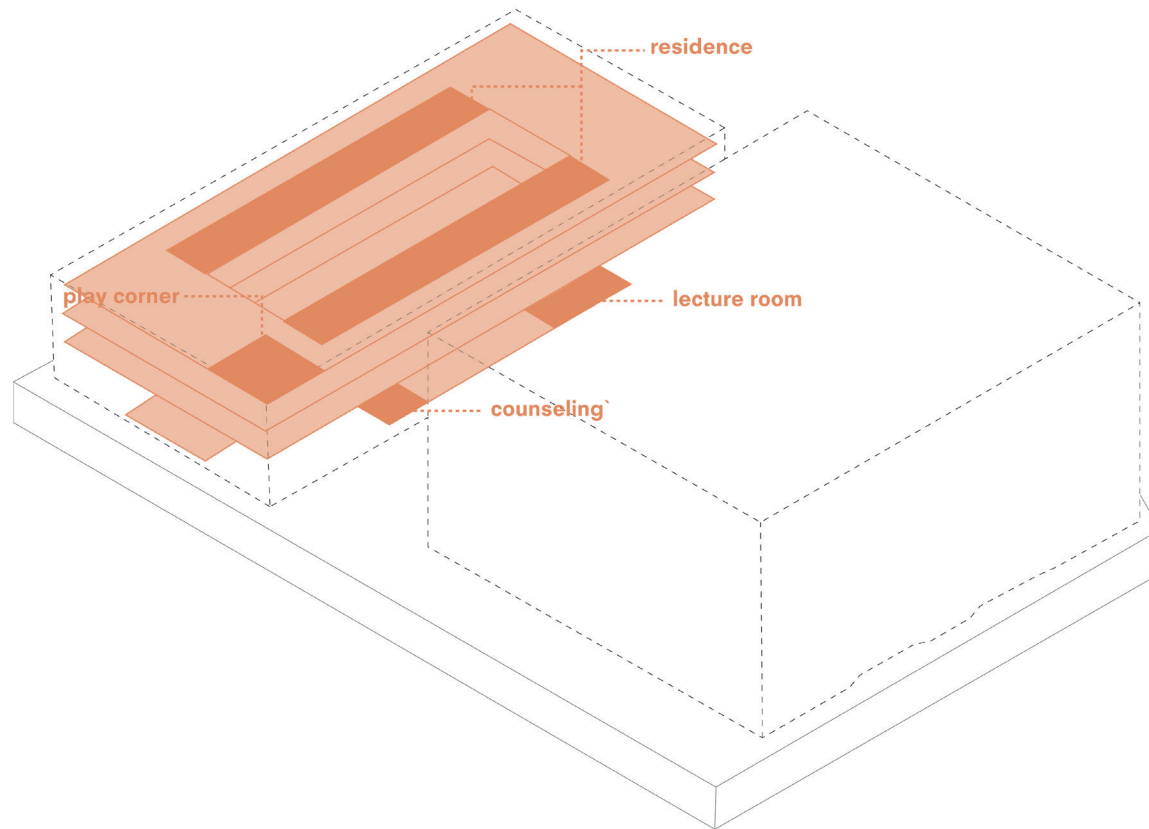
building system

# SEMI-PUBLIC FLOORS



building system

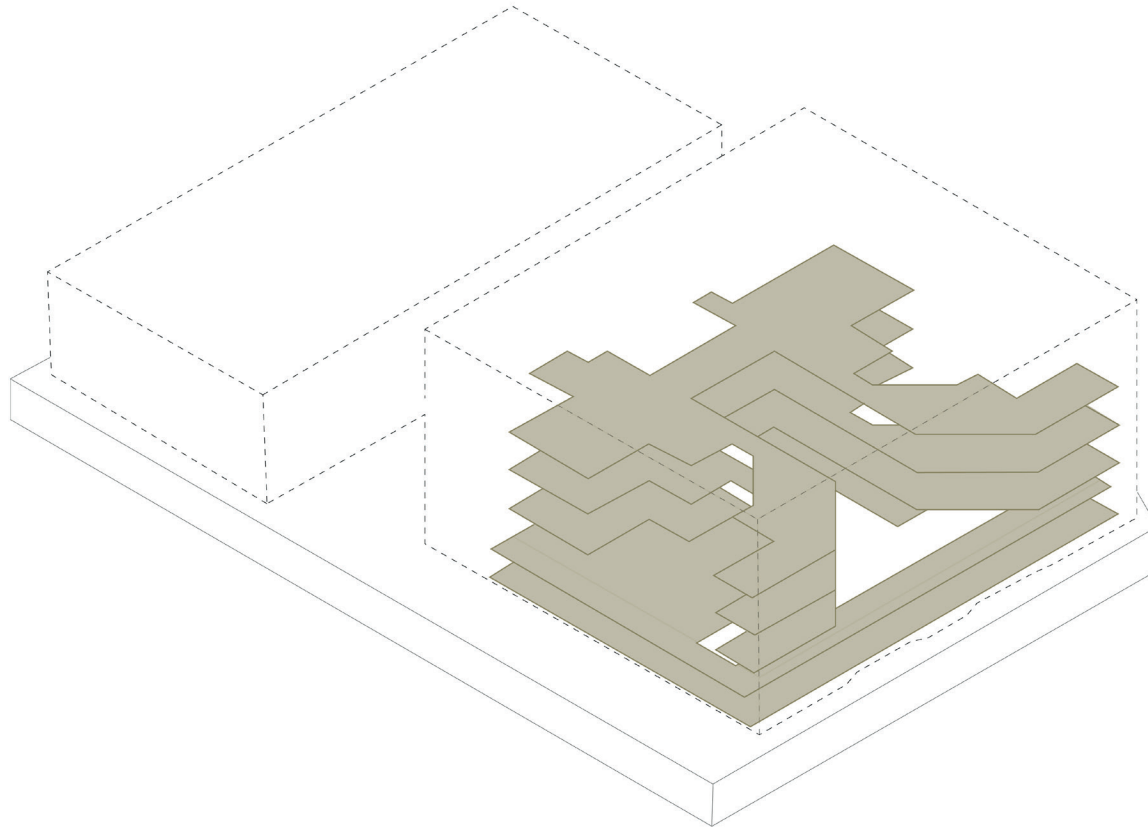
# SEMI-PUBLIC PROGRAM





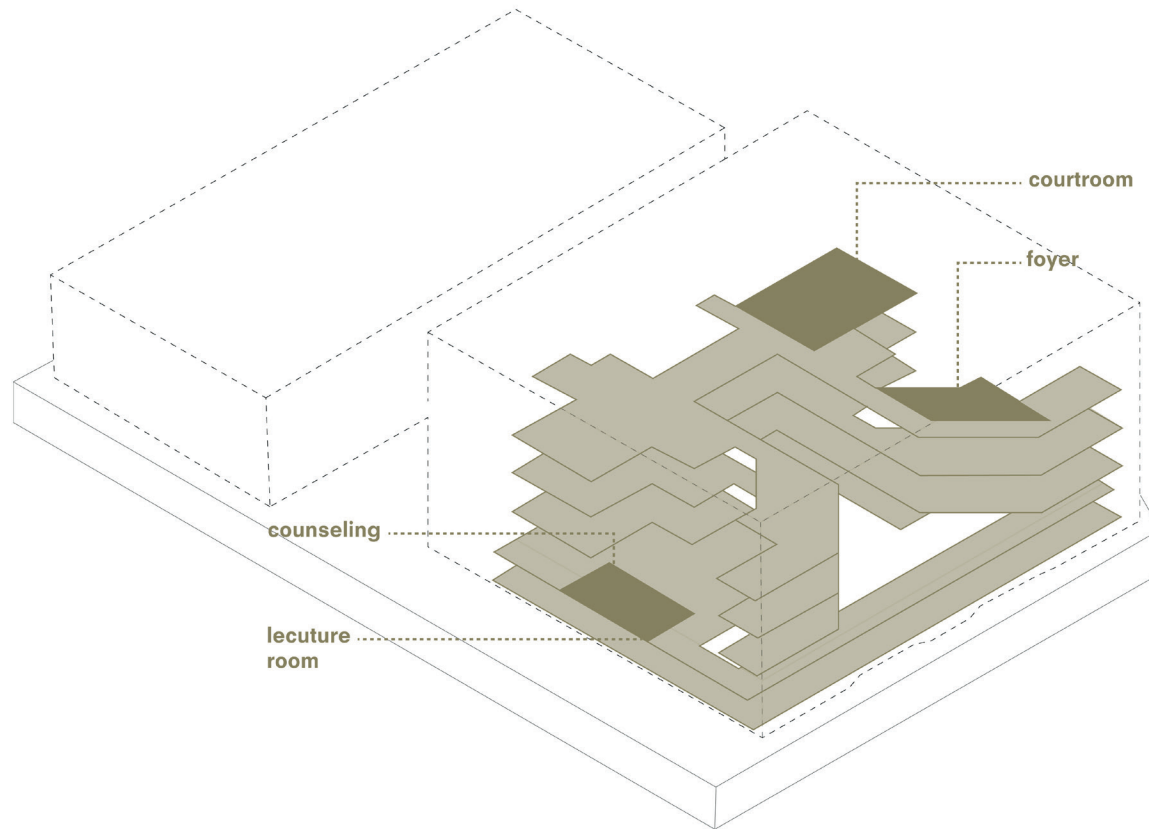
building system

# PUBLIC FLOORS



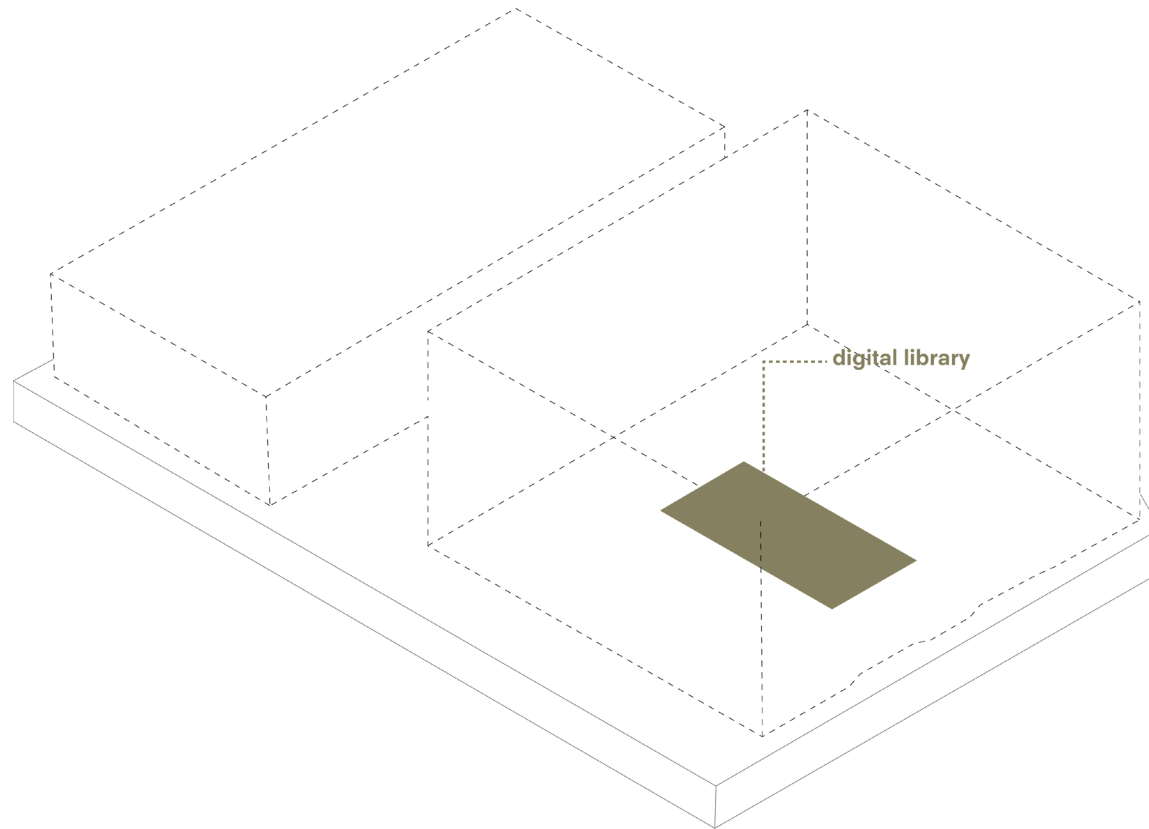
building system

# PUBLIC PROGRAM



building system

# PUBLIC PROGRAM



building system  
**CROSS SECTION**



building system  
**CROSS SECTION**

- Youth Court
- Probationary Housing
- Juvenile Assistance Services
- Data Center



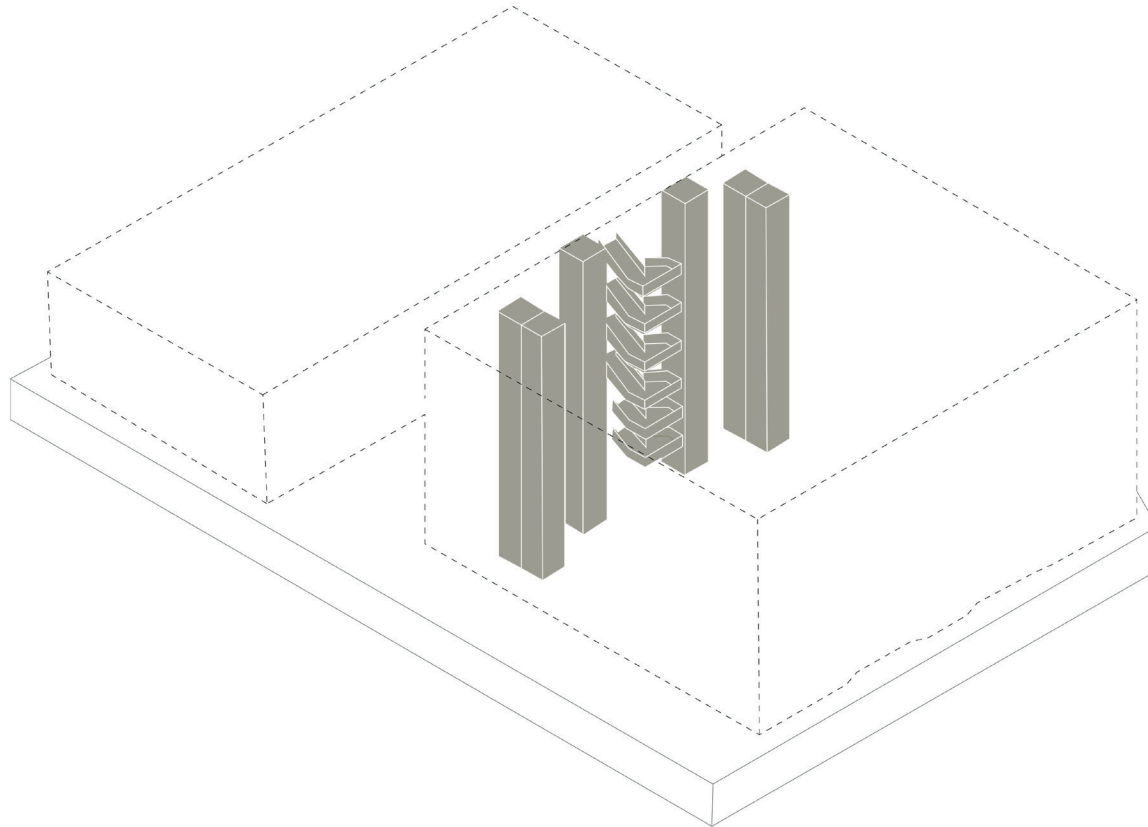
building envelope

# COURTROOM FRAGMENT

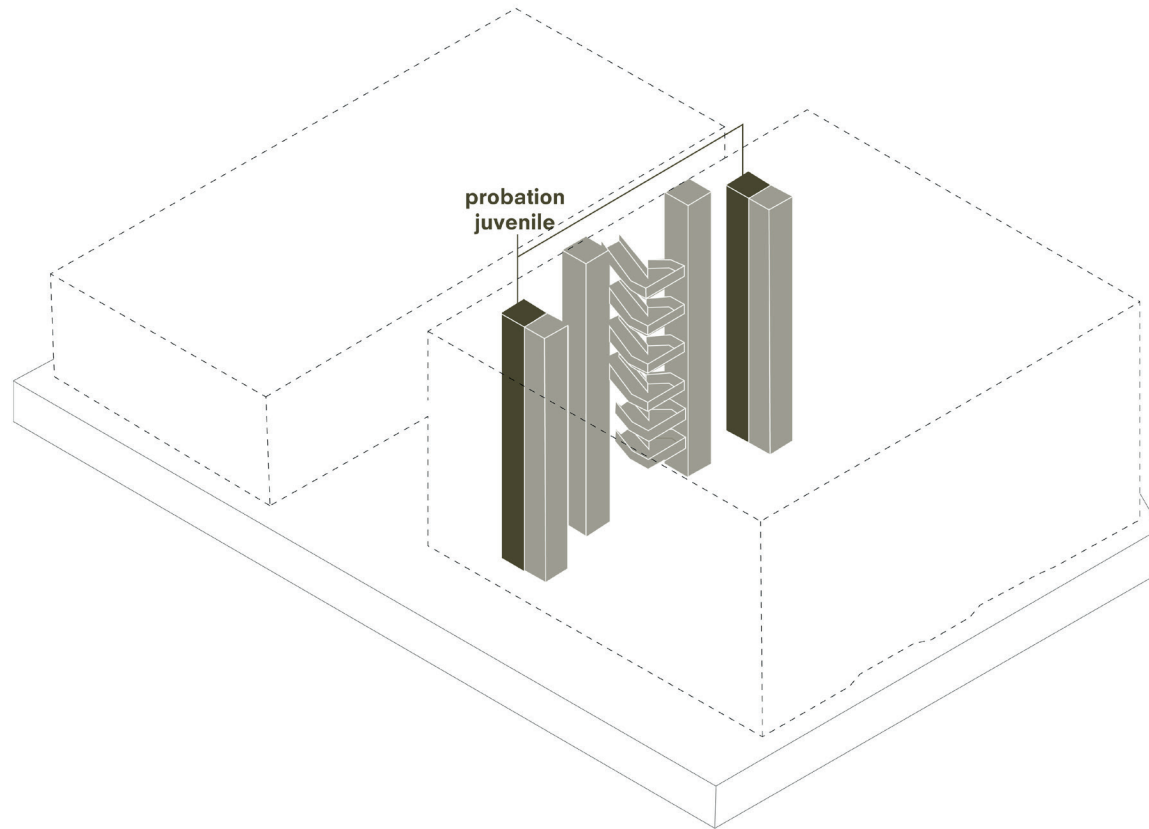


difference in ceiling height, to create a space in which a child does not feel lost

# VERTICAL CIRCULATION: PRIVATE

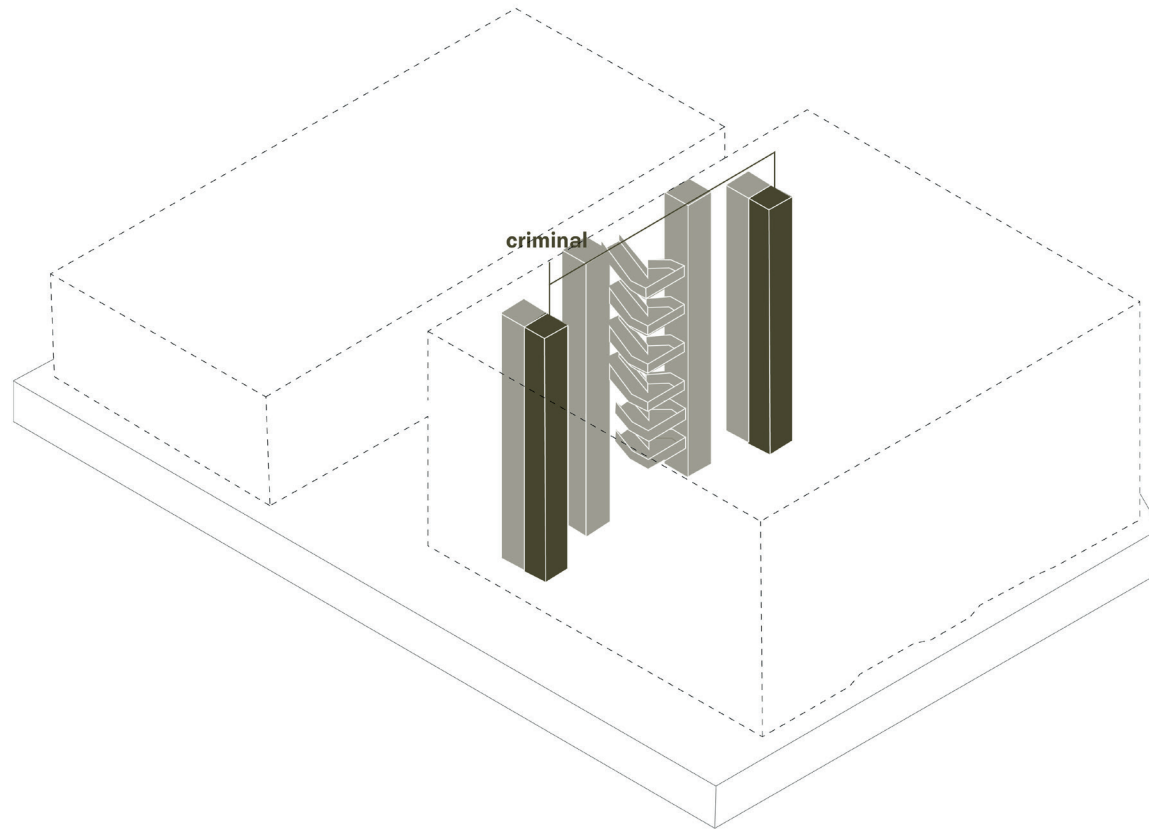


# VERTICAL CIRCULATION: PRIVATE

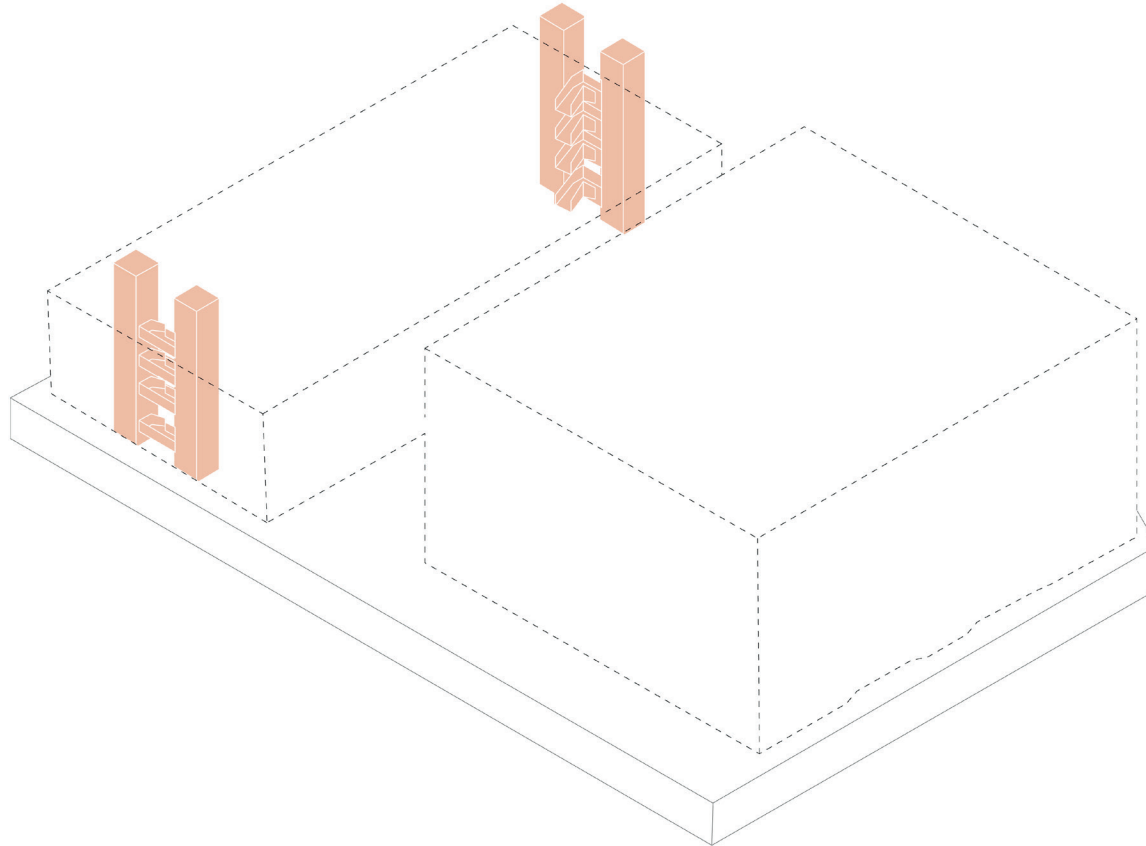




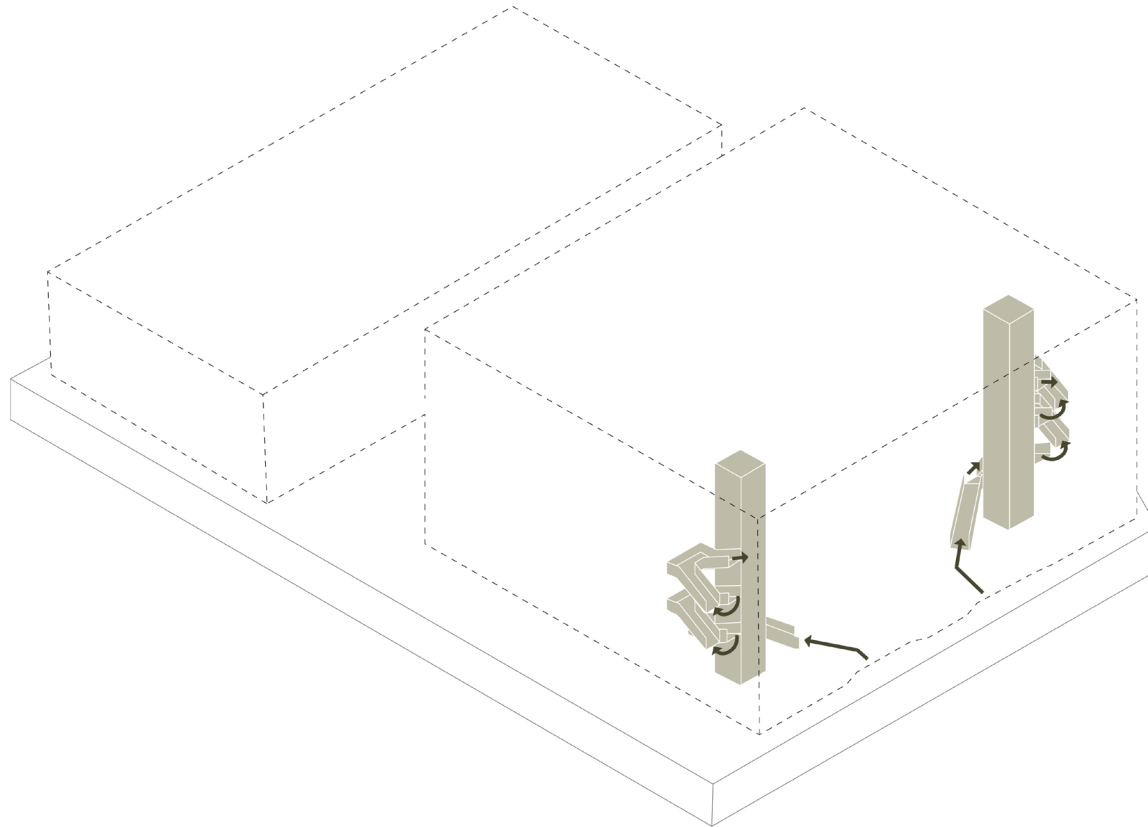
# VERTICAL CIRCULATION: PRIVATE



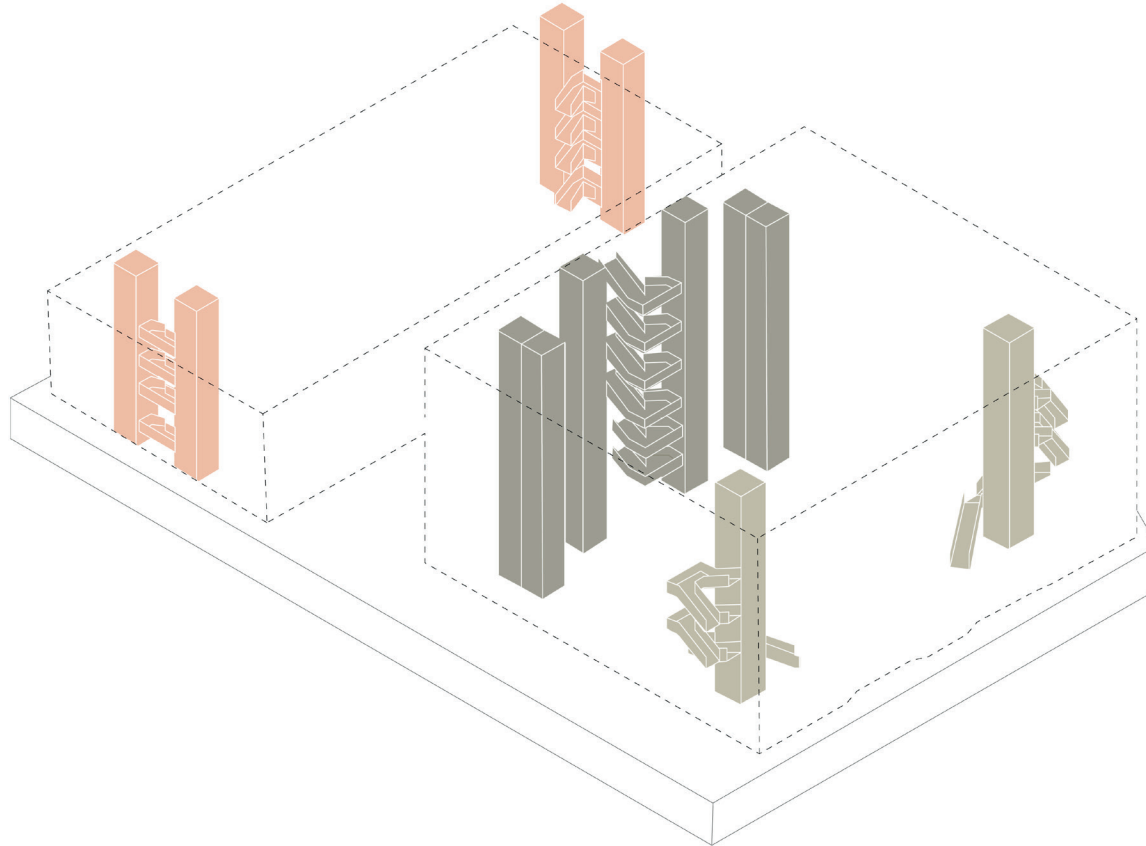
# VERTICAL CIRCULATION: SEMI-PUBLIC



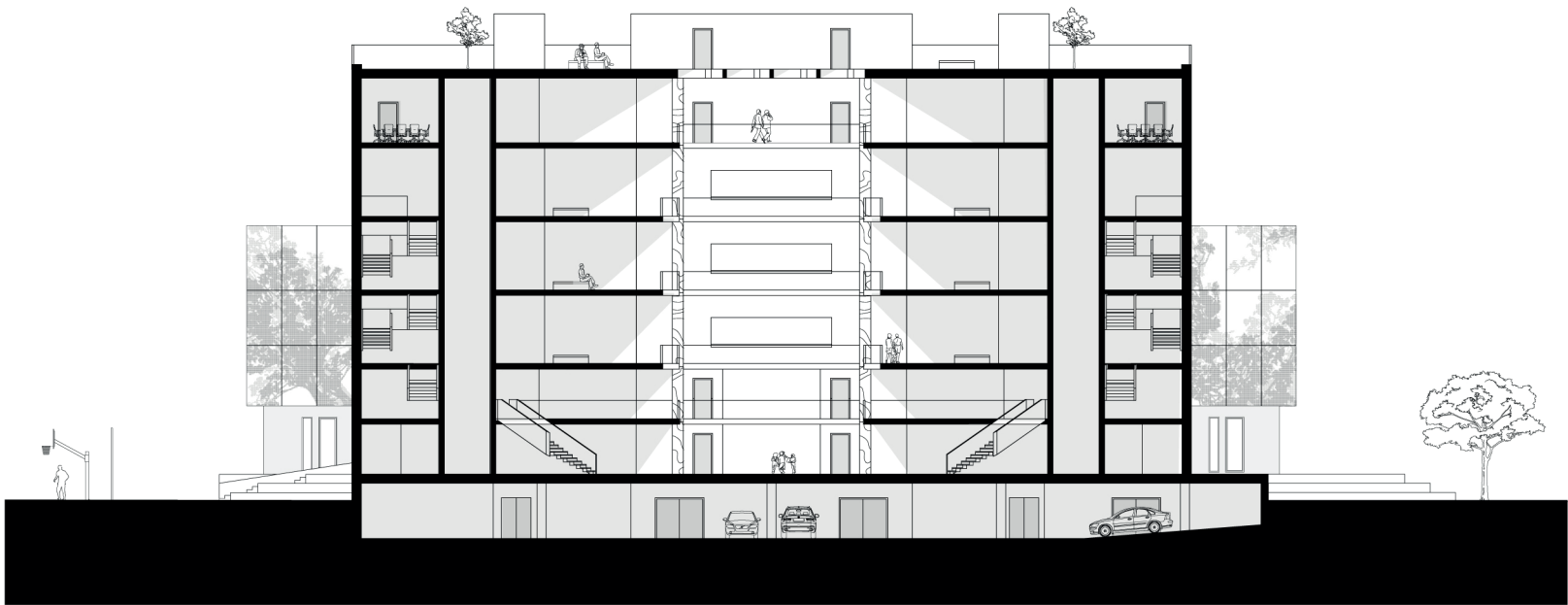
# VERTICAL CIRCULATION: PUBLIC



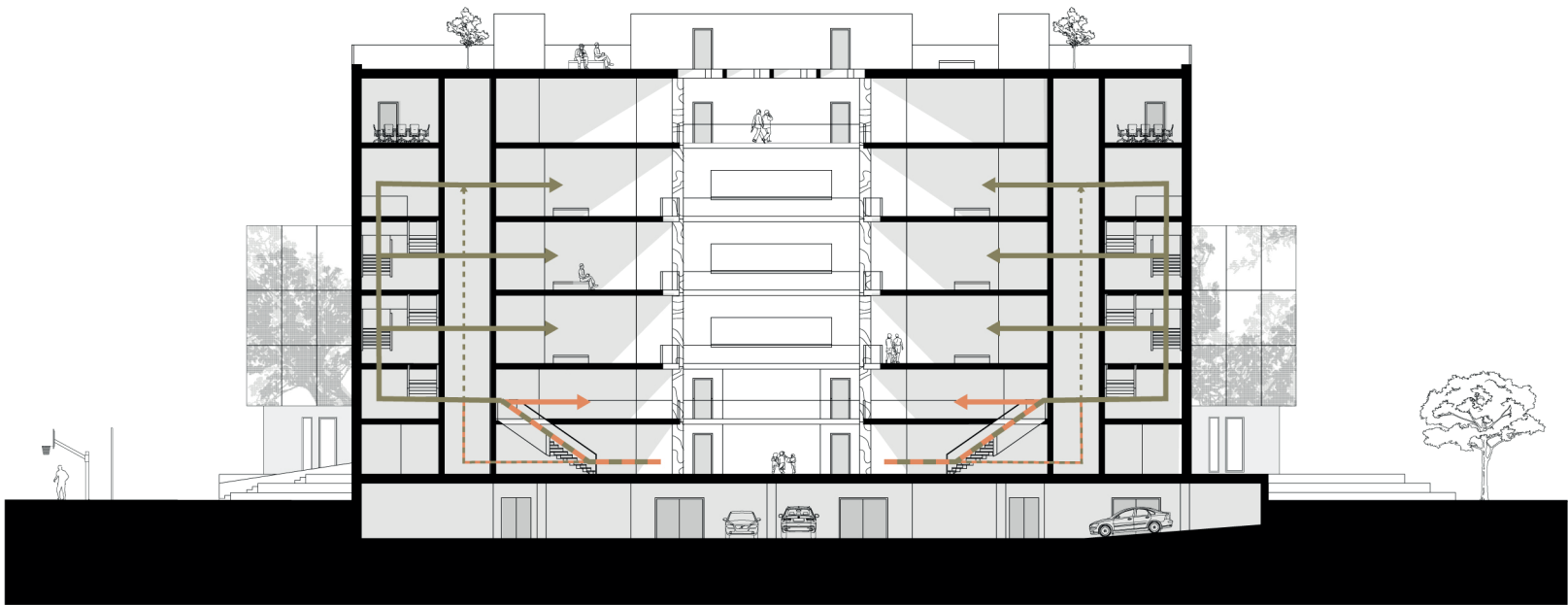
# VERTICAL CIRCULATION: OVERVIEW



building system  
**CROSS SECTION**



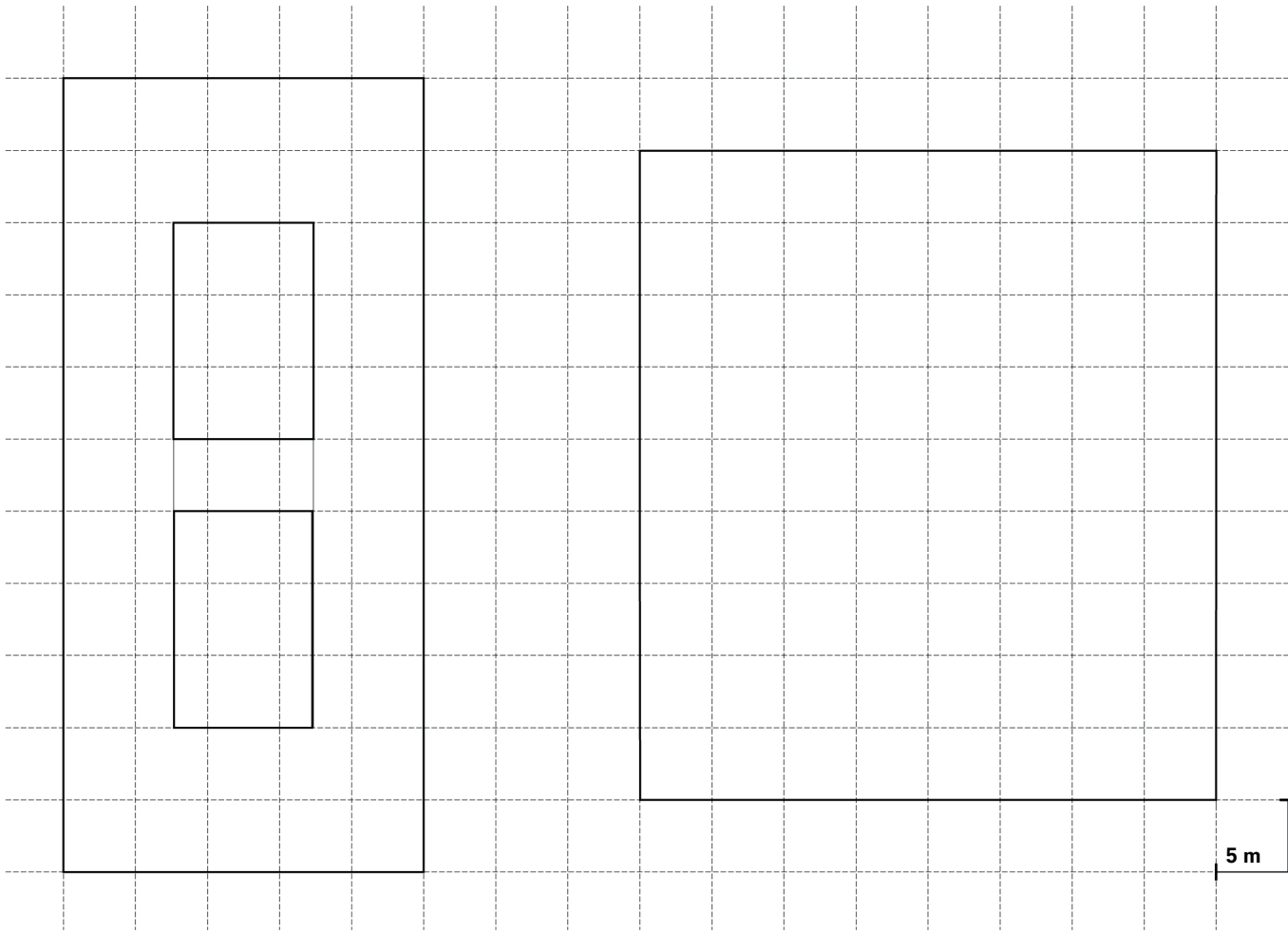
building system  
**CROSS SECTION**



# STRUCTURE

structure

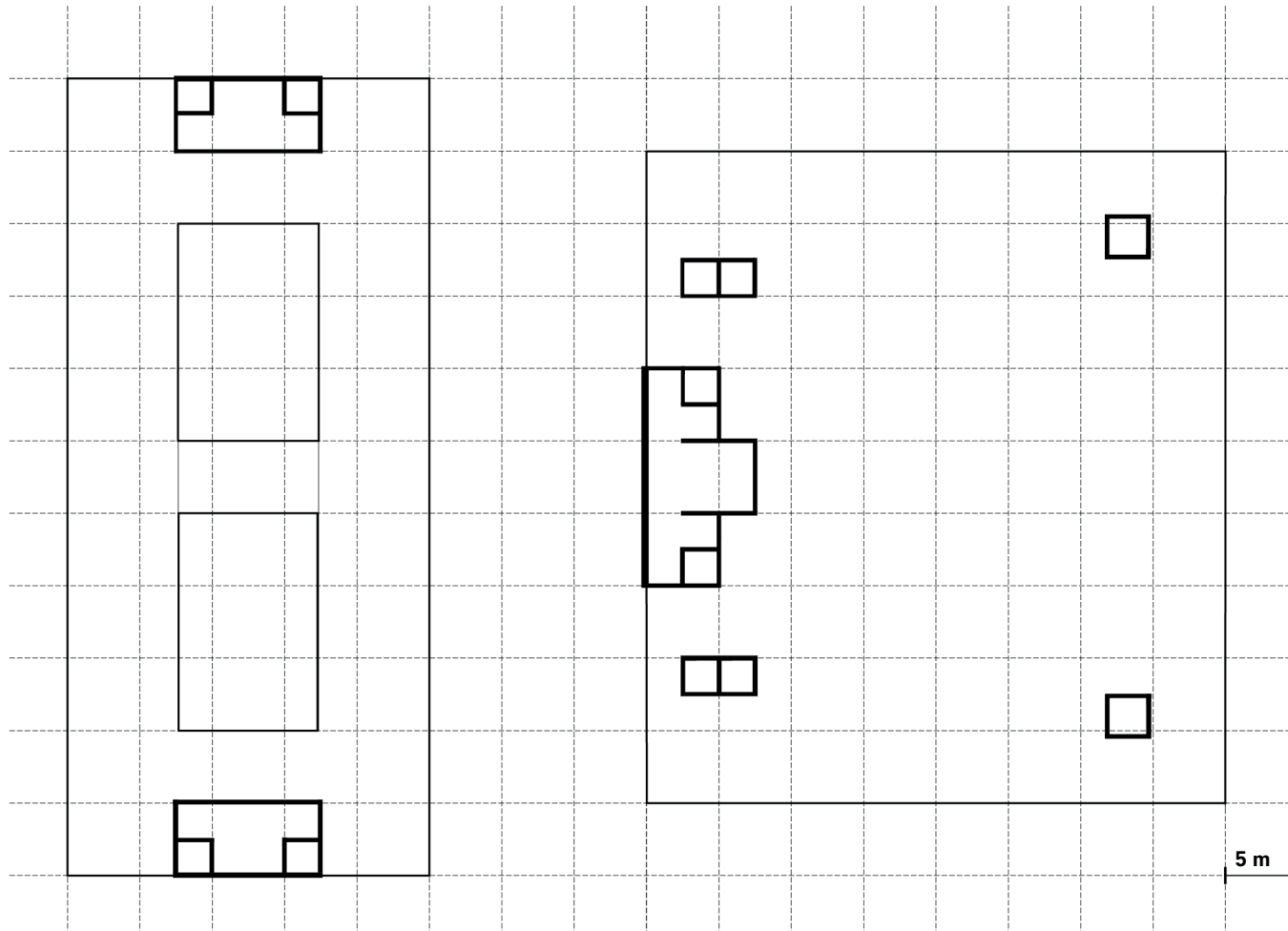
# GRID SYSTEM



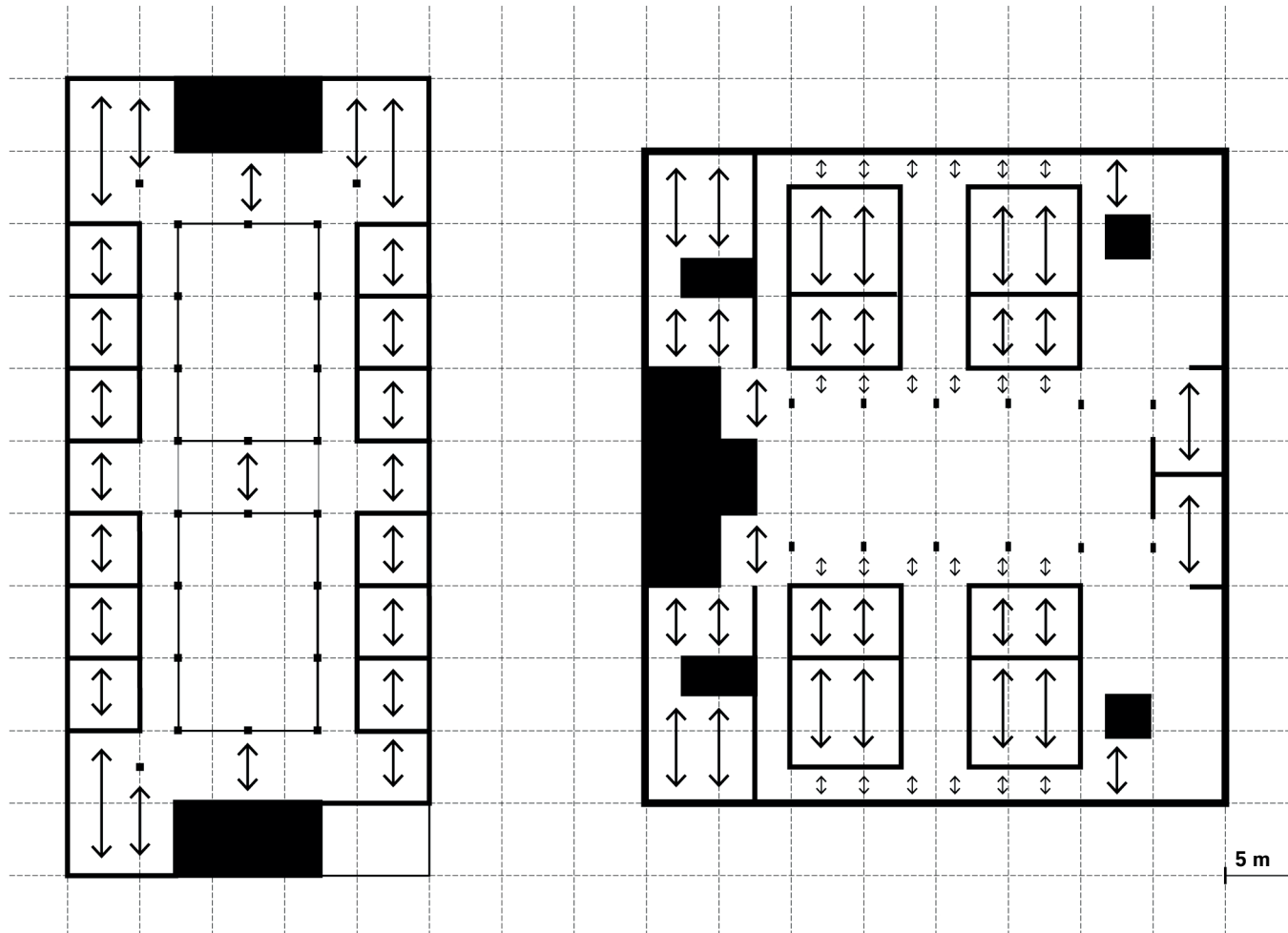


structure

# BUILDING CORES



# SPAN DIRECTION



structure

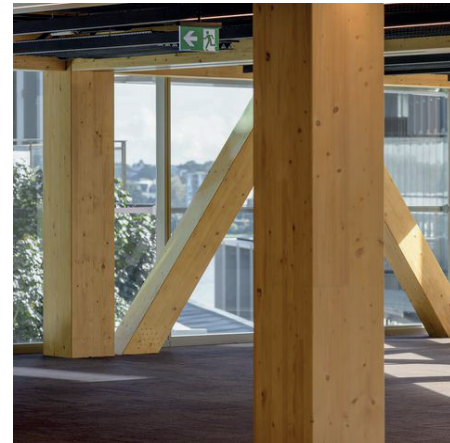
# STRUCTURAL MATERIALS



CONCRETE



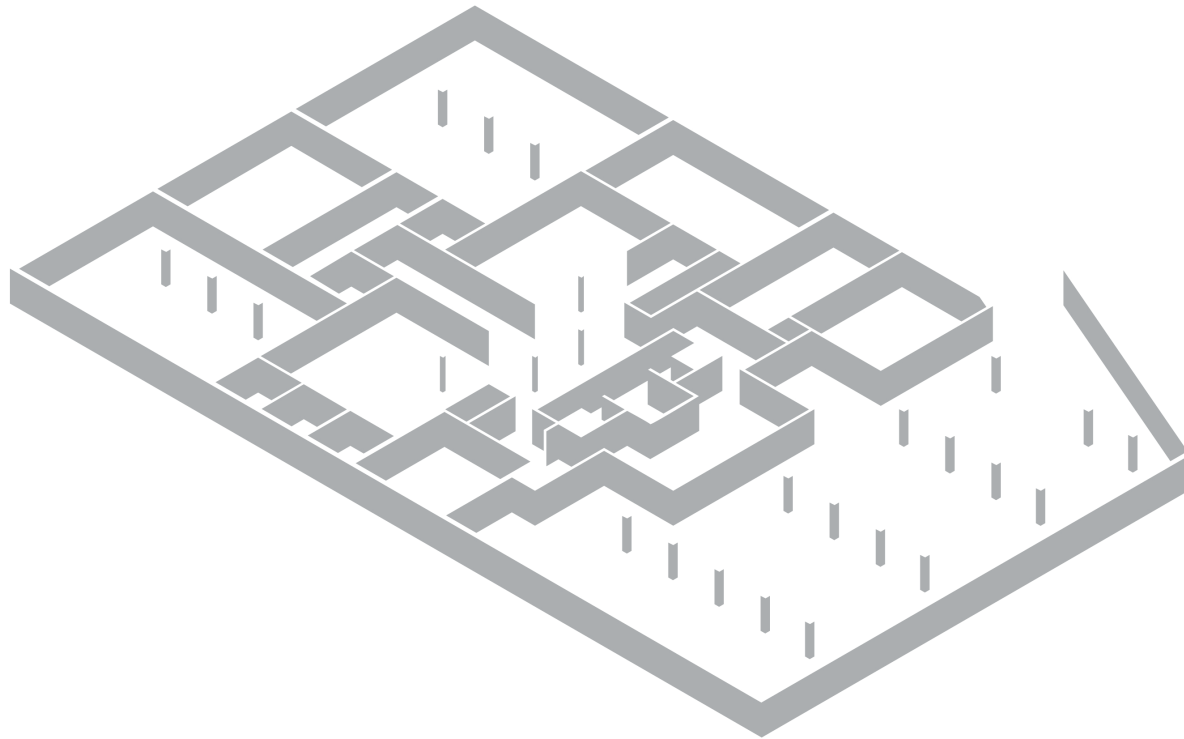
CLT



GLT

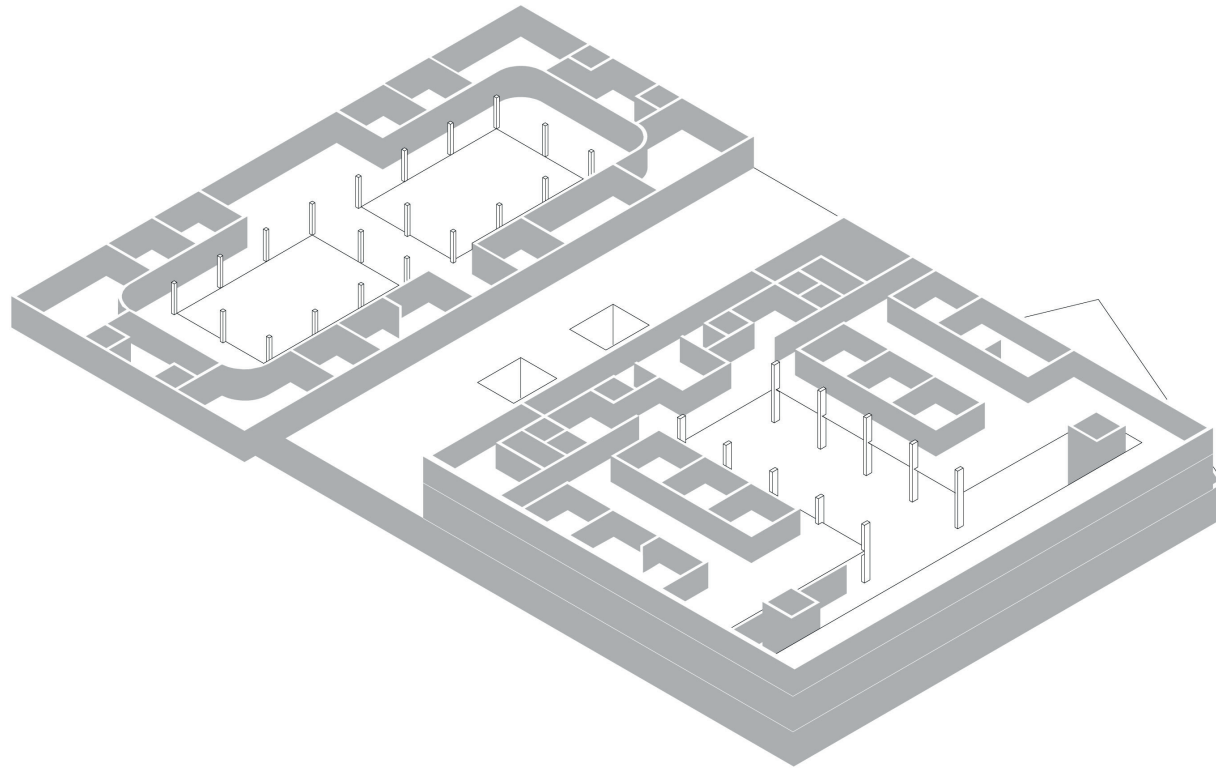
structure

# STRUCTURAL MODEL: CONCRETE



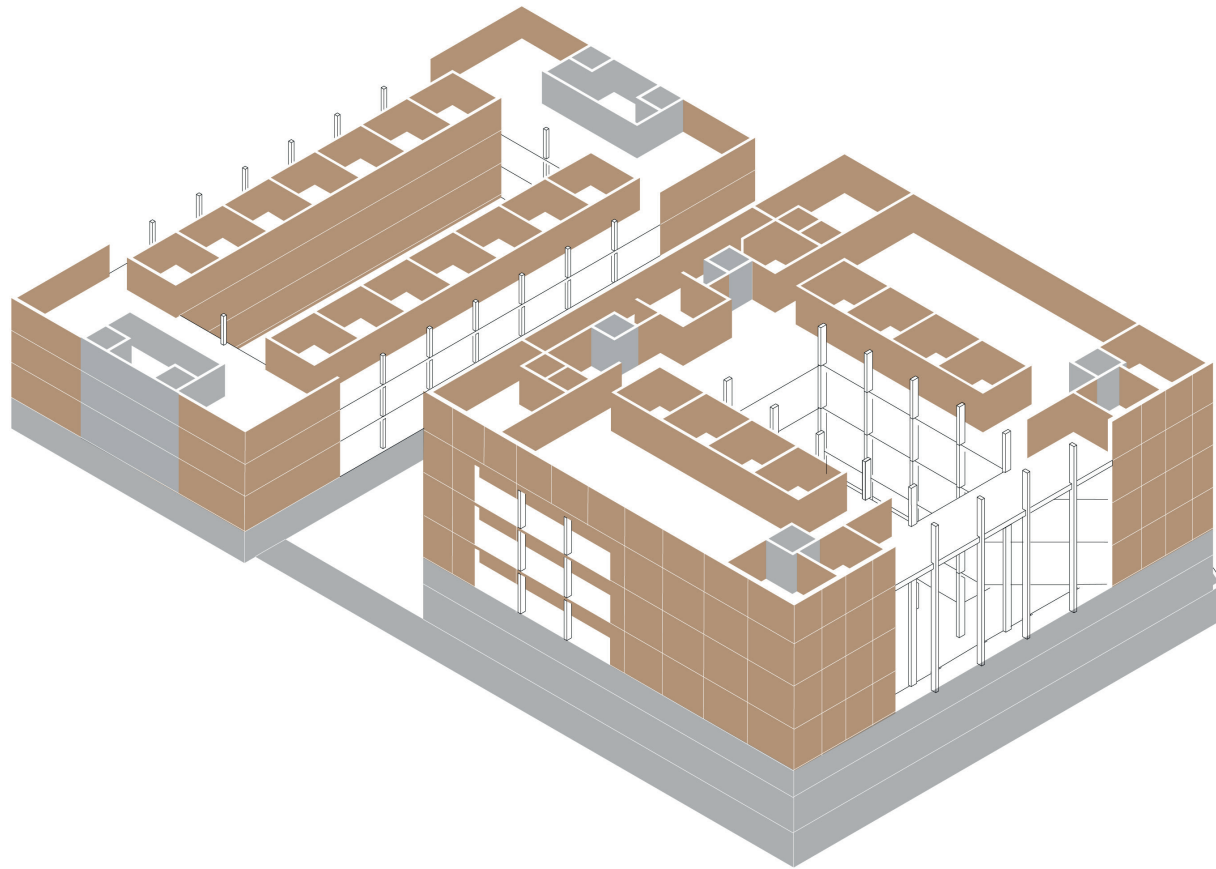
structure

# STRUCTURAL MODEL: CONCRETE



structure

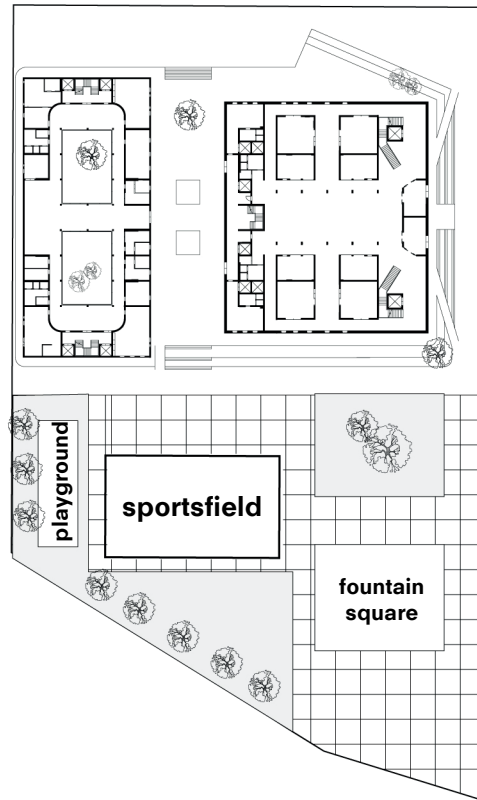
# STRUCTURAL MODEL: CLT



# SQUARE DESIGN

design

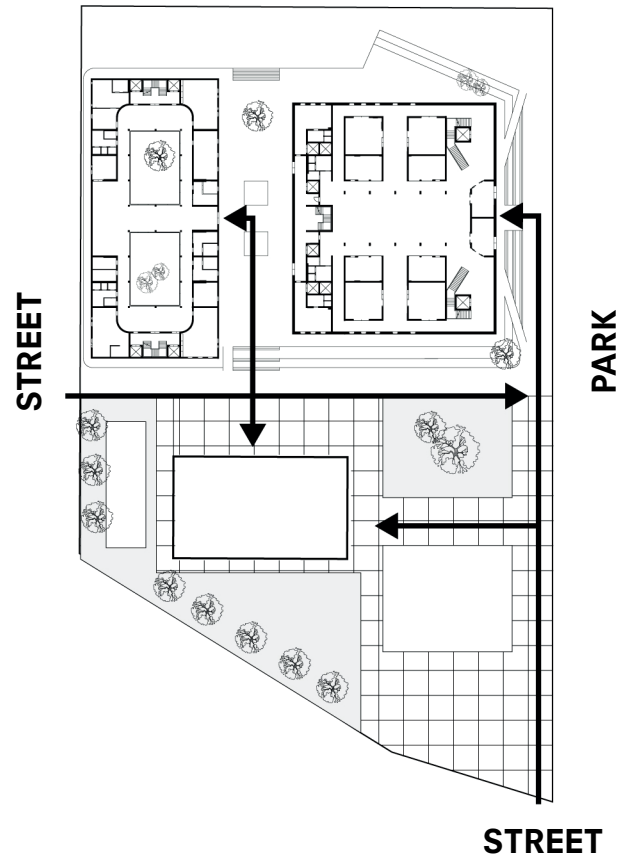
# SQUARE FUNCTION





design

# SQUARE FLOW

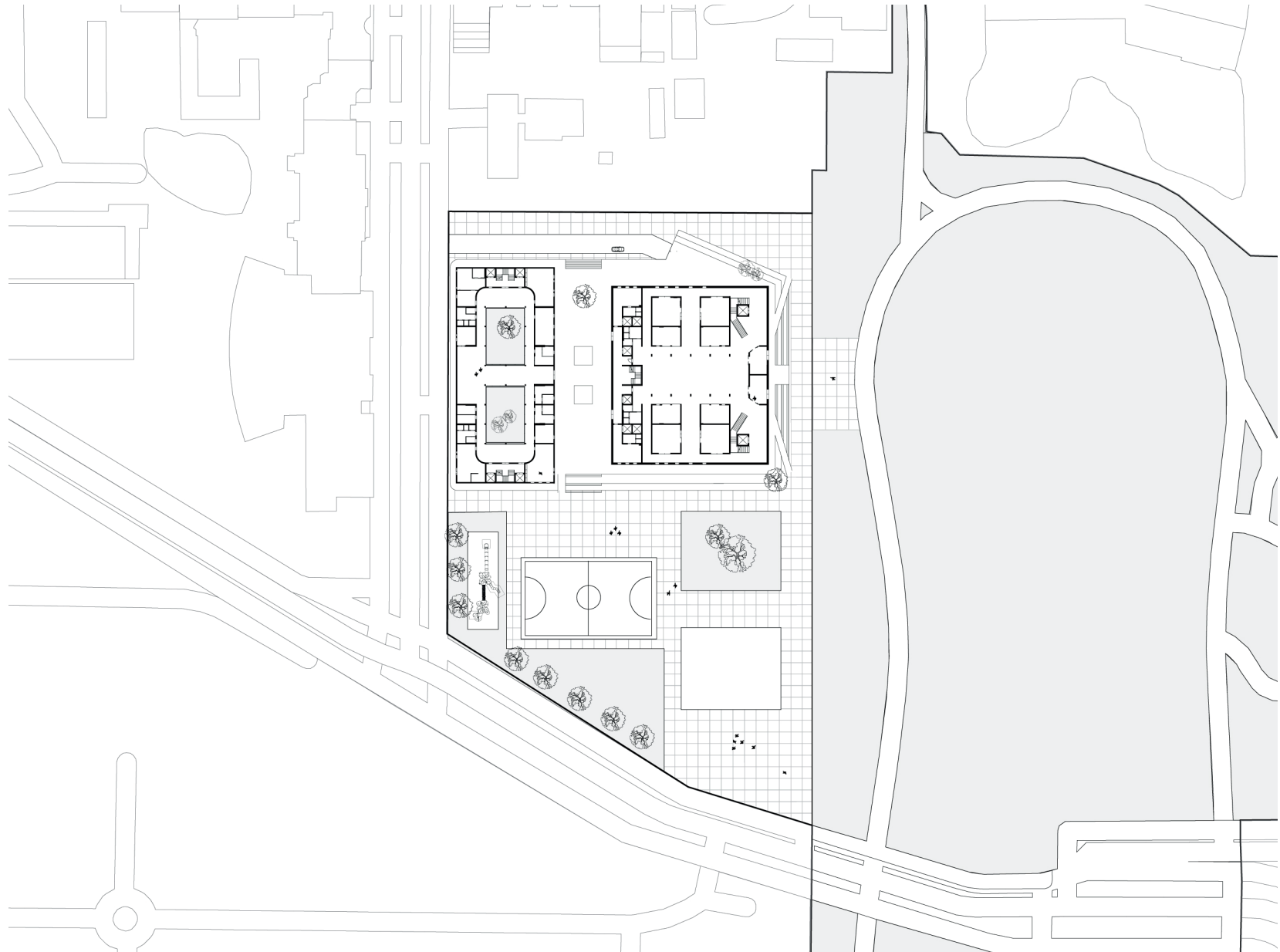


design

# URBAN IMPLEMENTATION

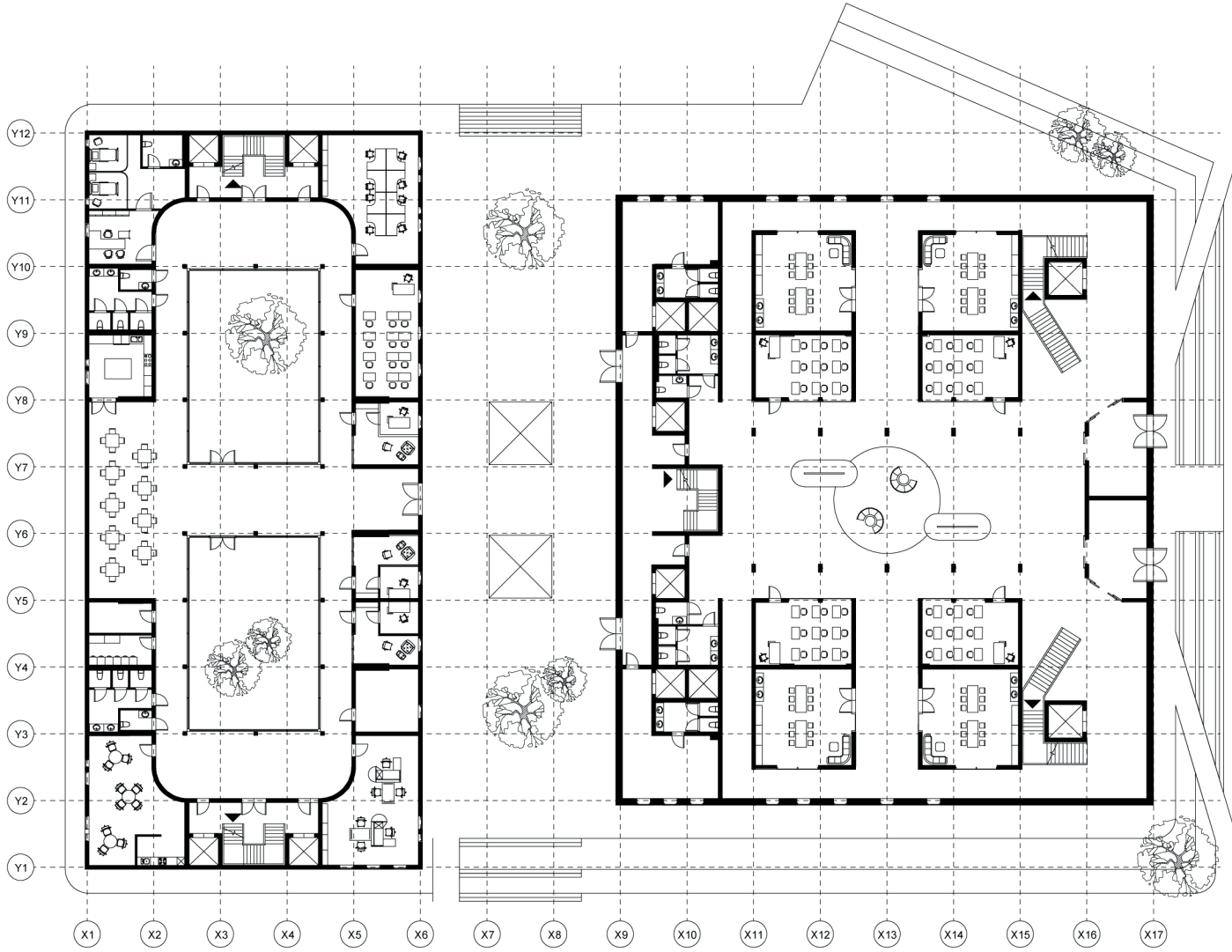


design  
**SITE PLAN**

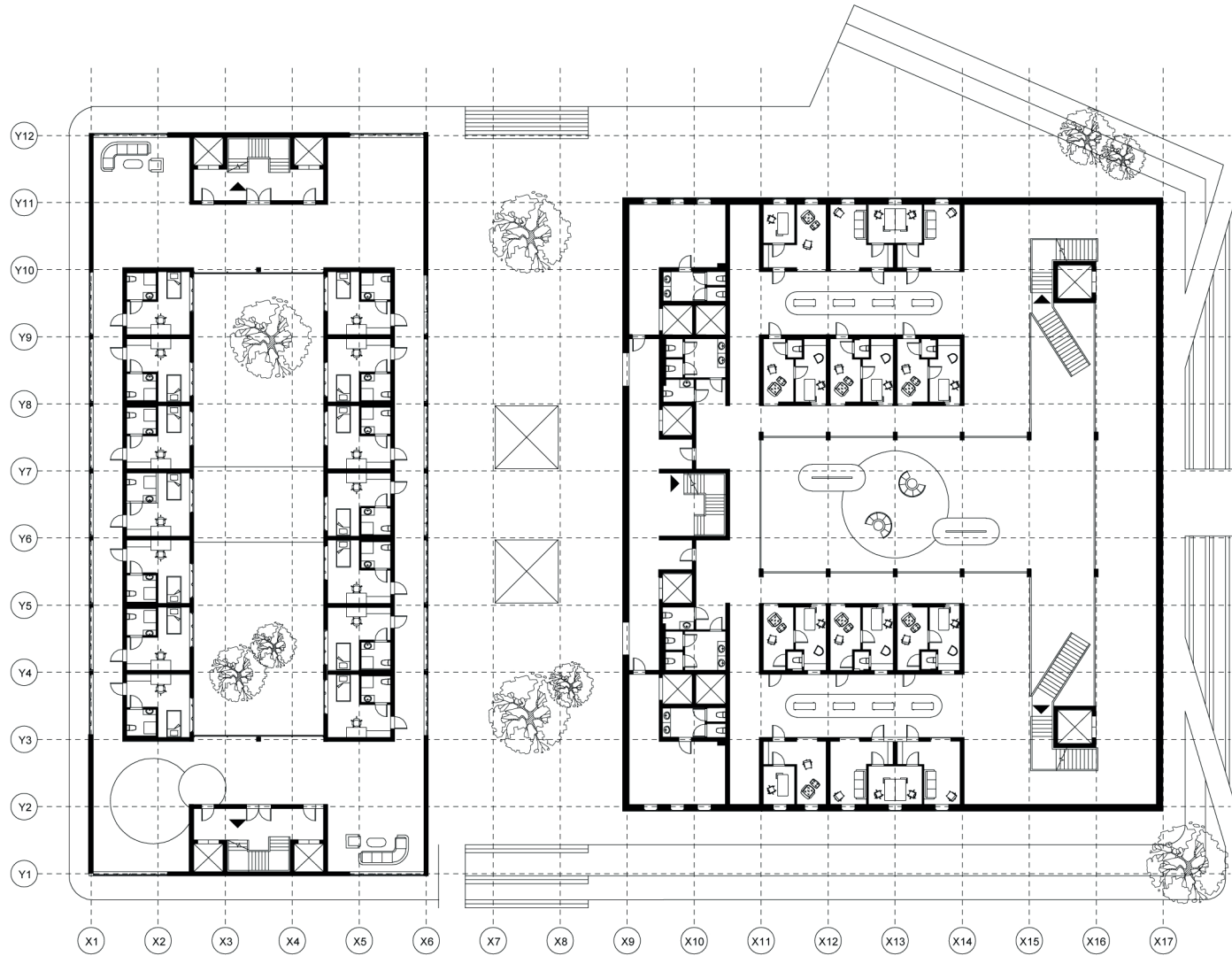


# BUILDING DESIGN

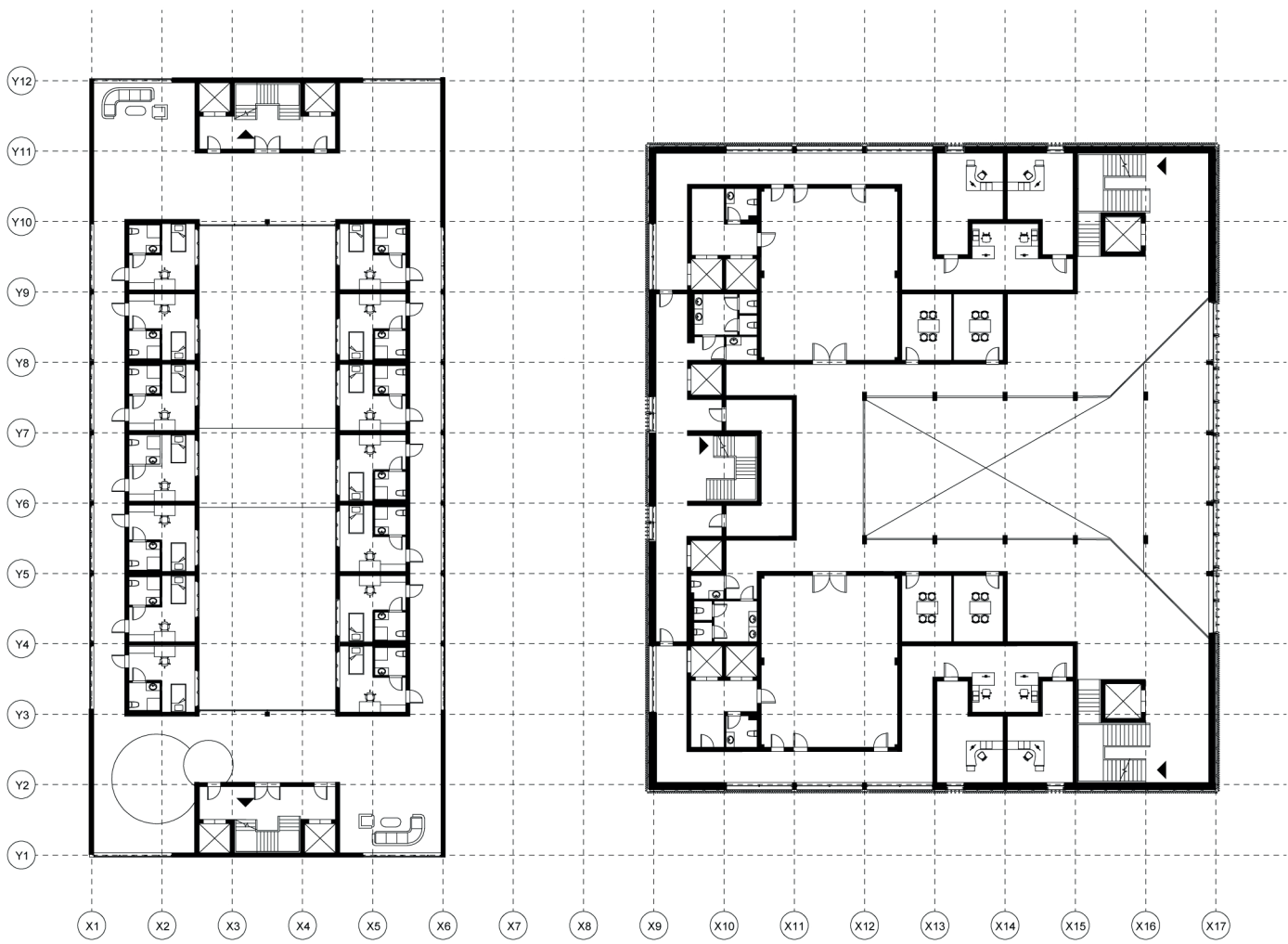
design  
**GROUND FLOOR**



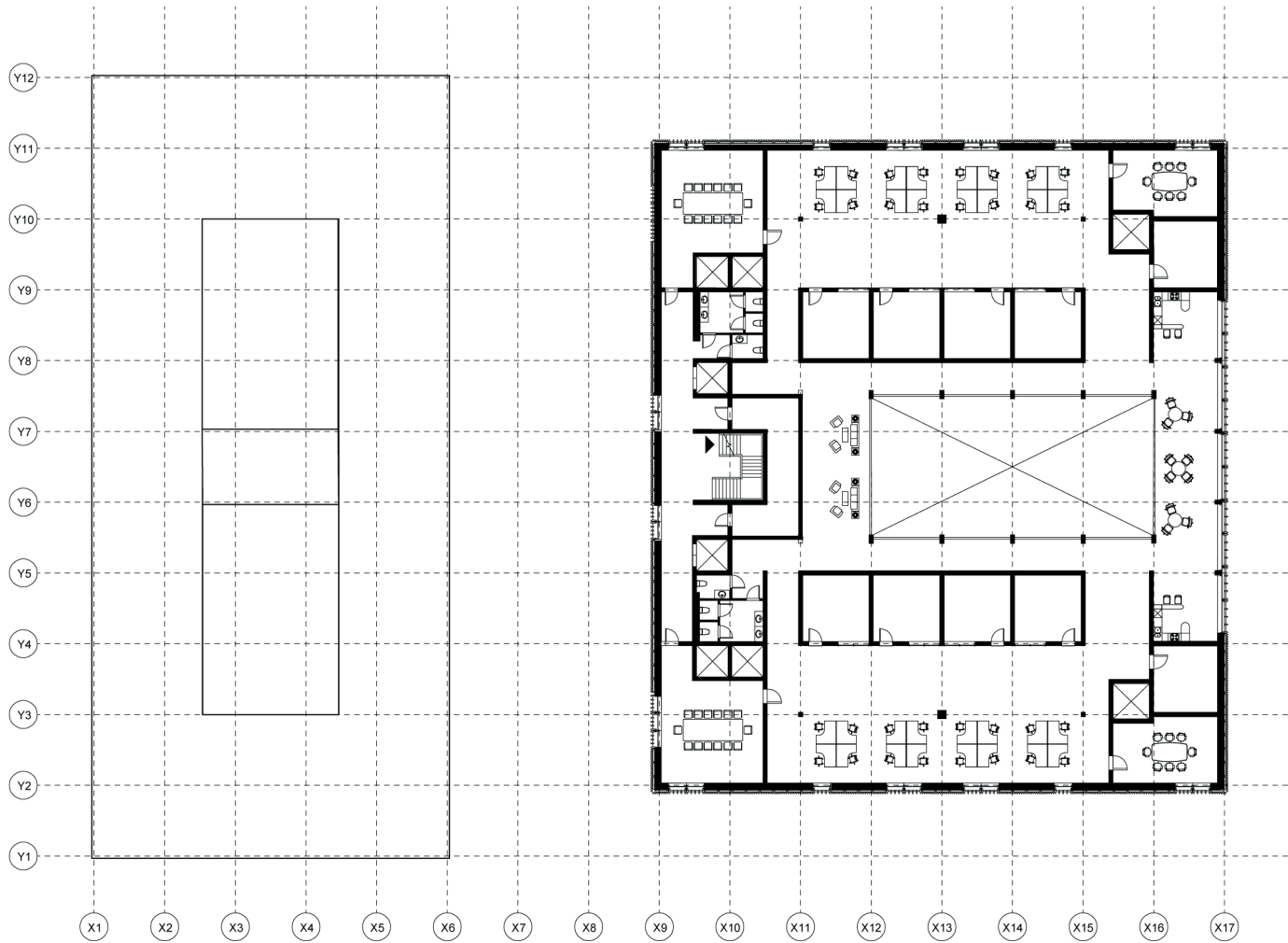
design  
**FIRST FLOOR**



design  
**2ND, 3TH, 4TH FLOOR**

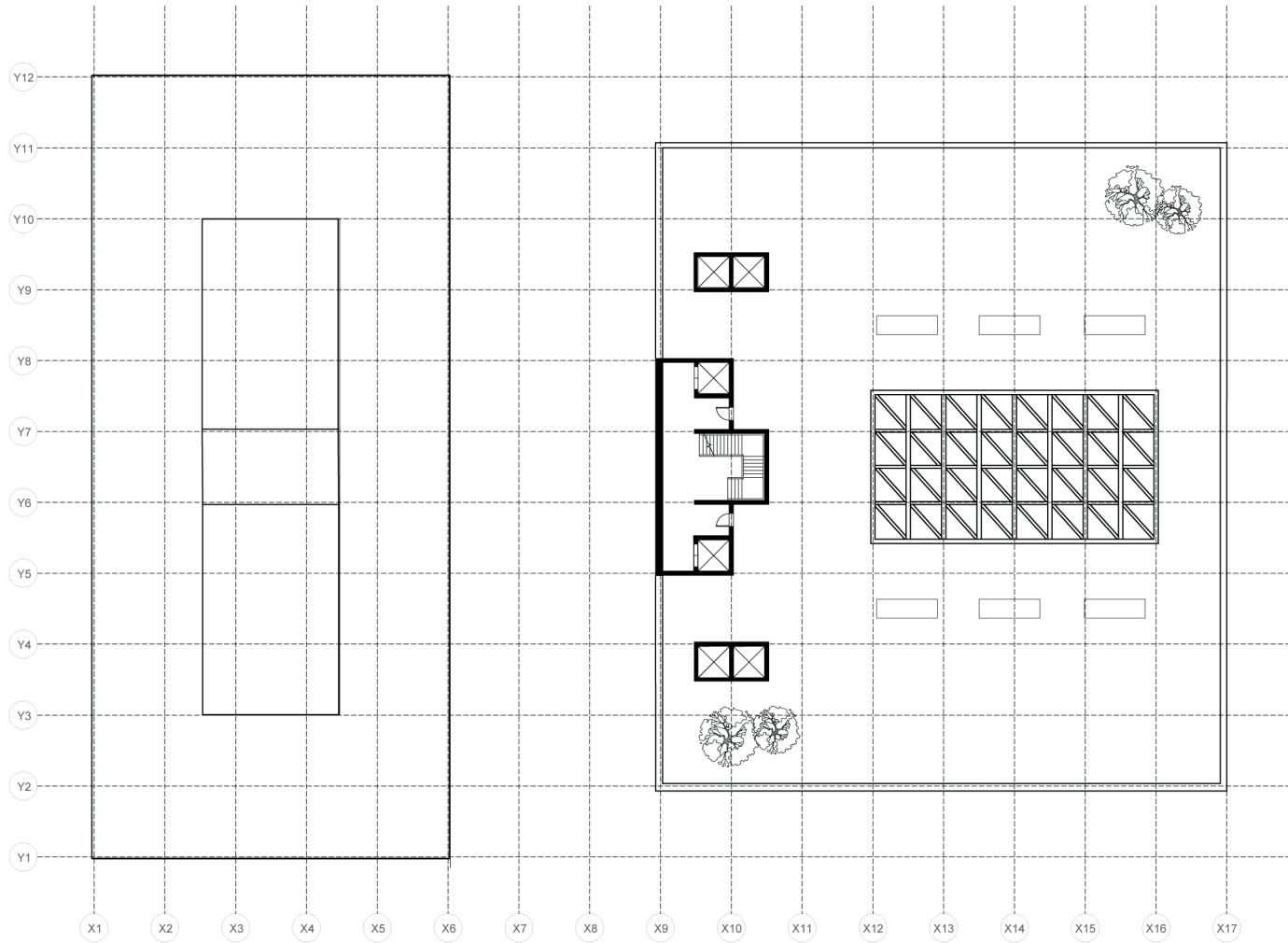


design  
**5TH FLOOR**

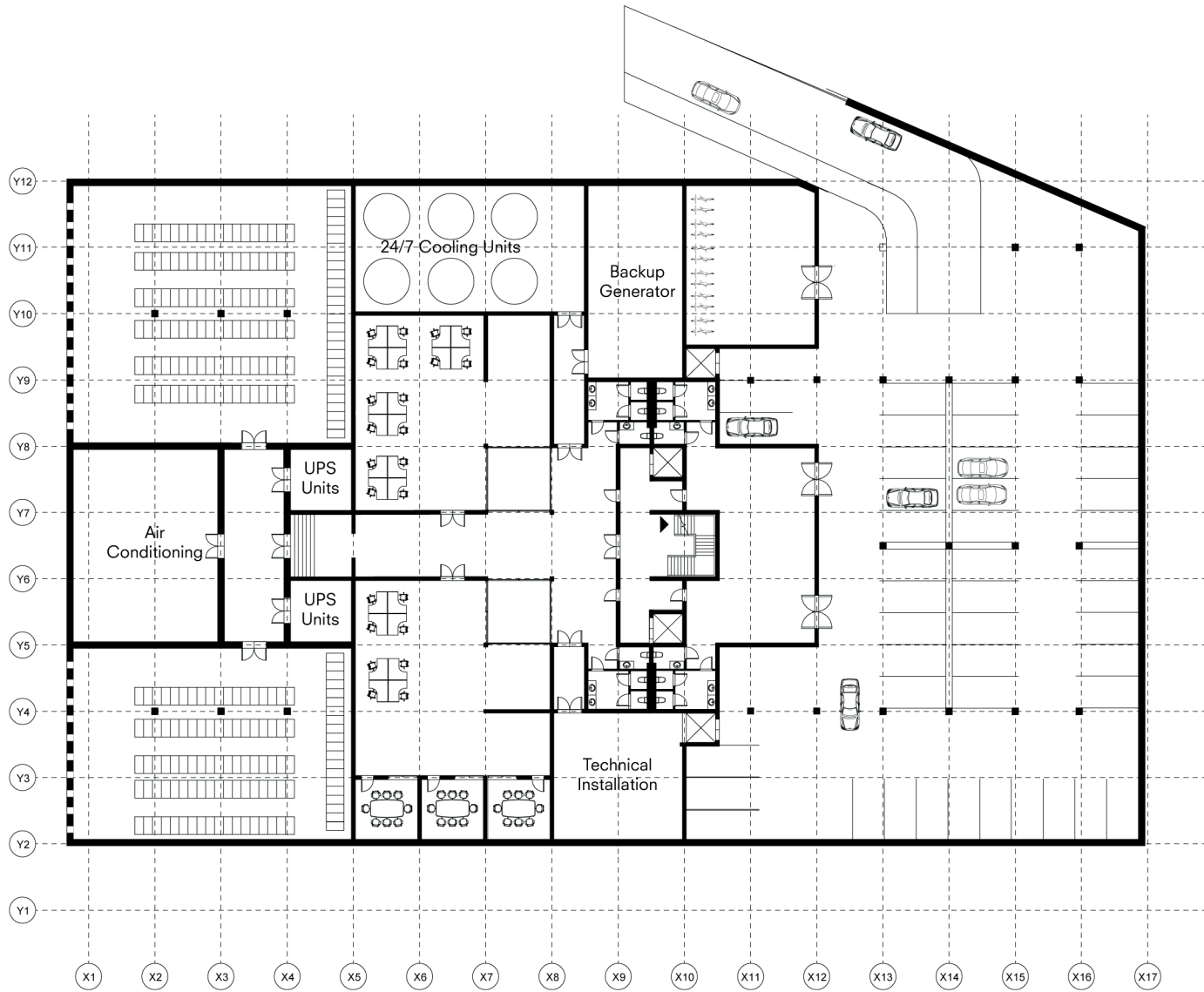




design  
**6TH FLOOR**

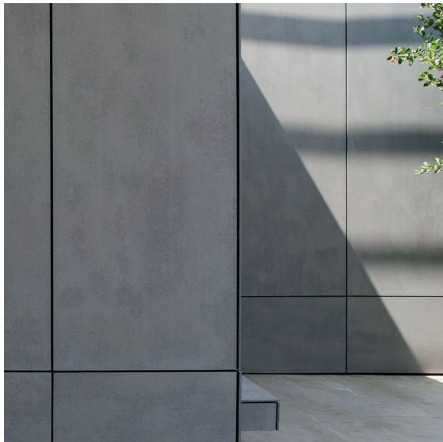


design  
**BASEMENT**



# BUILDING ENVELOPE

building envelope  
**MATERIALS**



CONCRETE PANELS



TIMBER SLATS



STEEL CLADDING

building envelope  
**MATERIALS**



CONCRETE PANELS

- strong and heavy impression



TIMBER SLATS

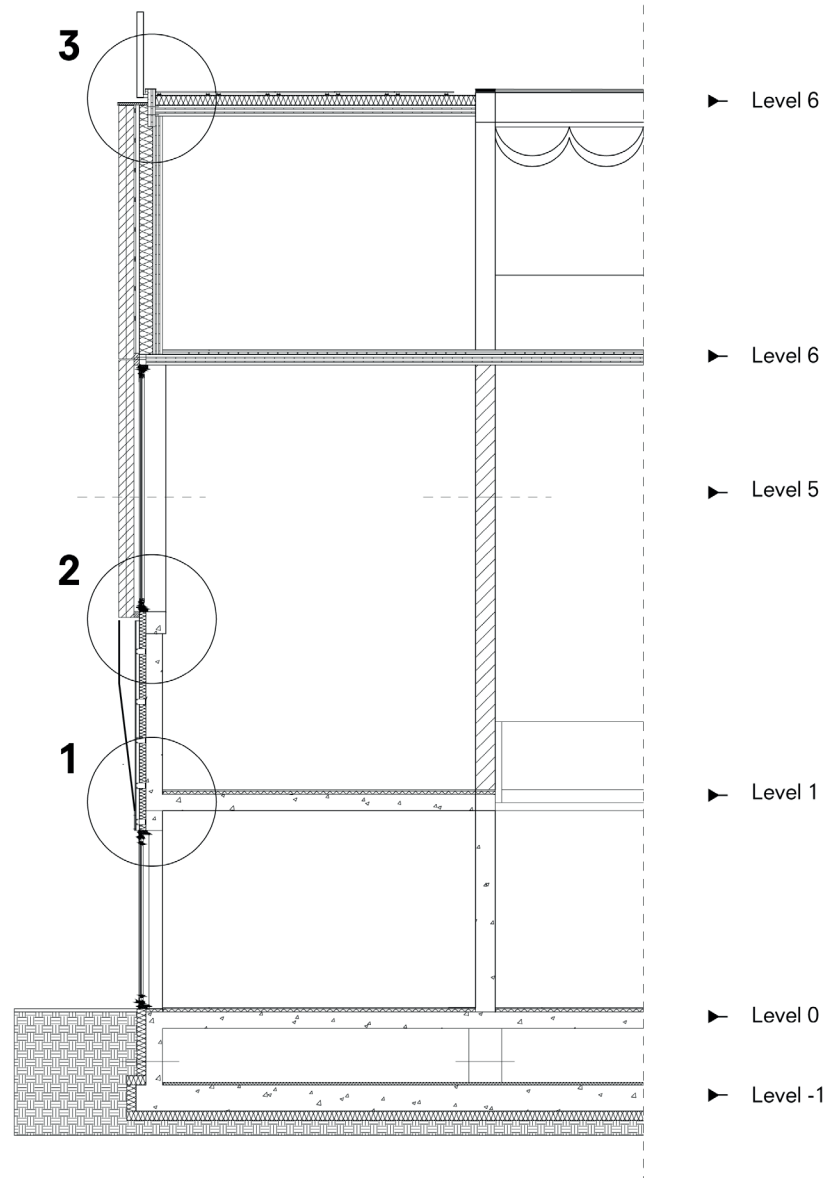
- warm and light impression
- privacy



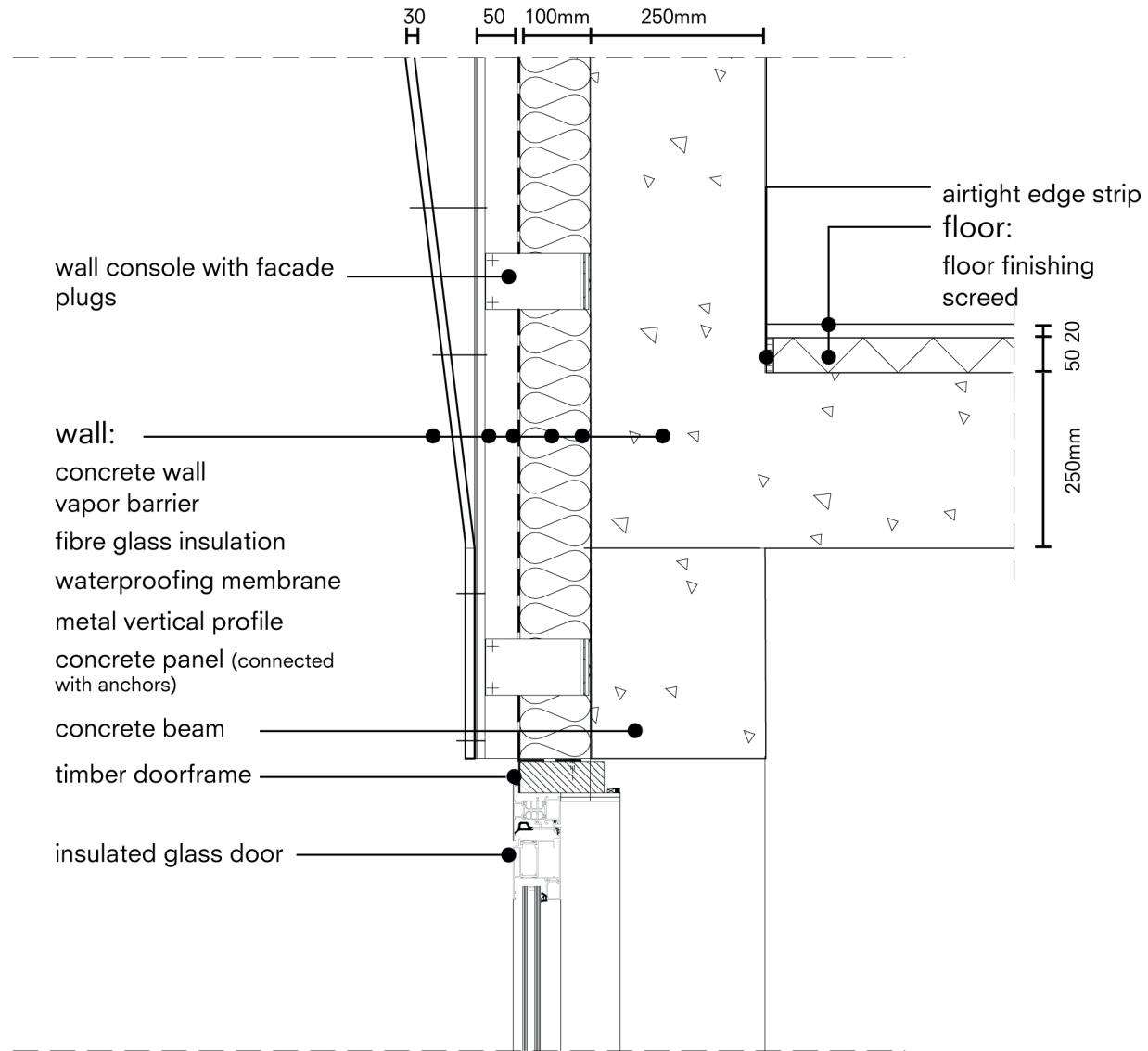
STEEL CLADDING

- mimick the tree for lack of view to the park (tranquility)
- privacy

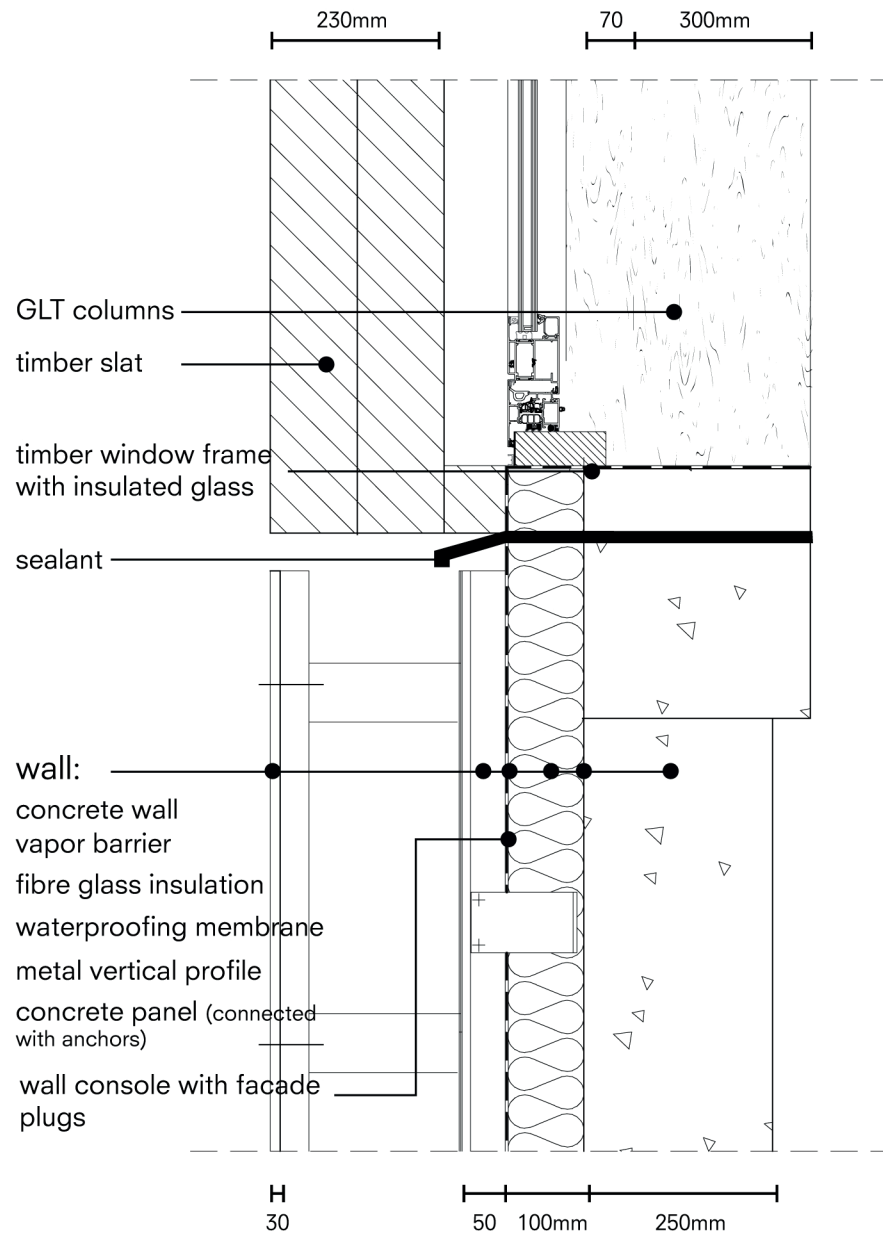
building envelope  
**ENVELOPE SECTION**



# ENVELOPE DETAIL 1

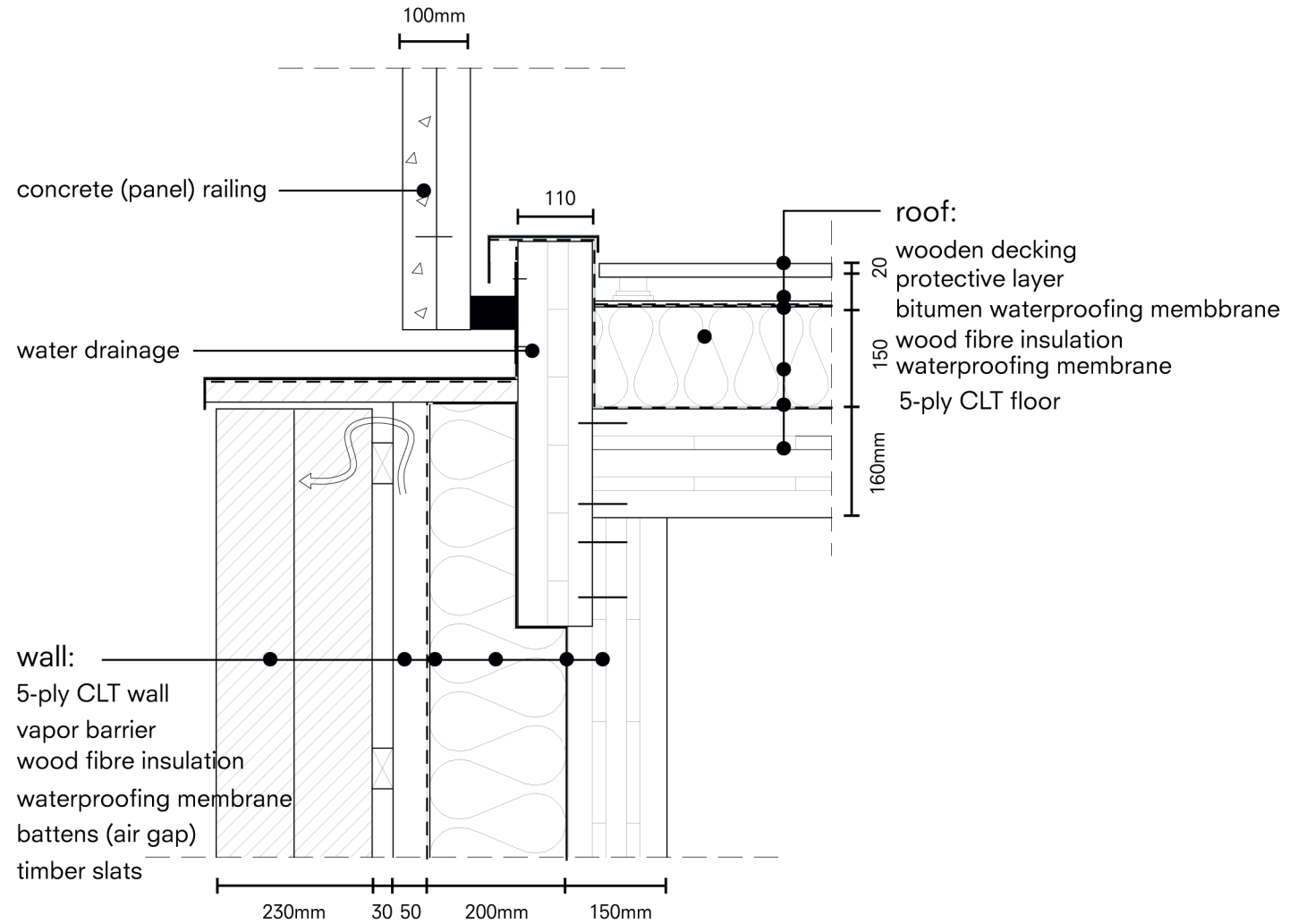


building envelope  
**ENVELOPE DETAIL 2**

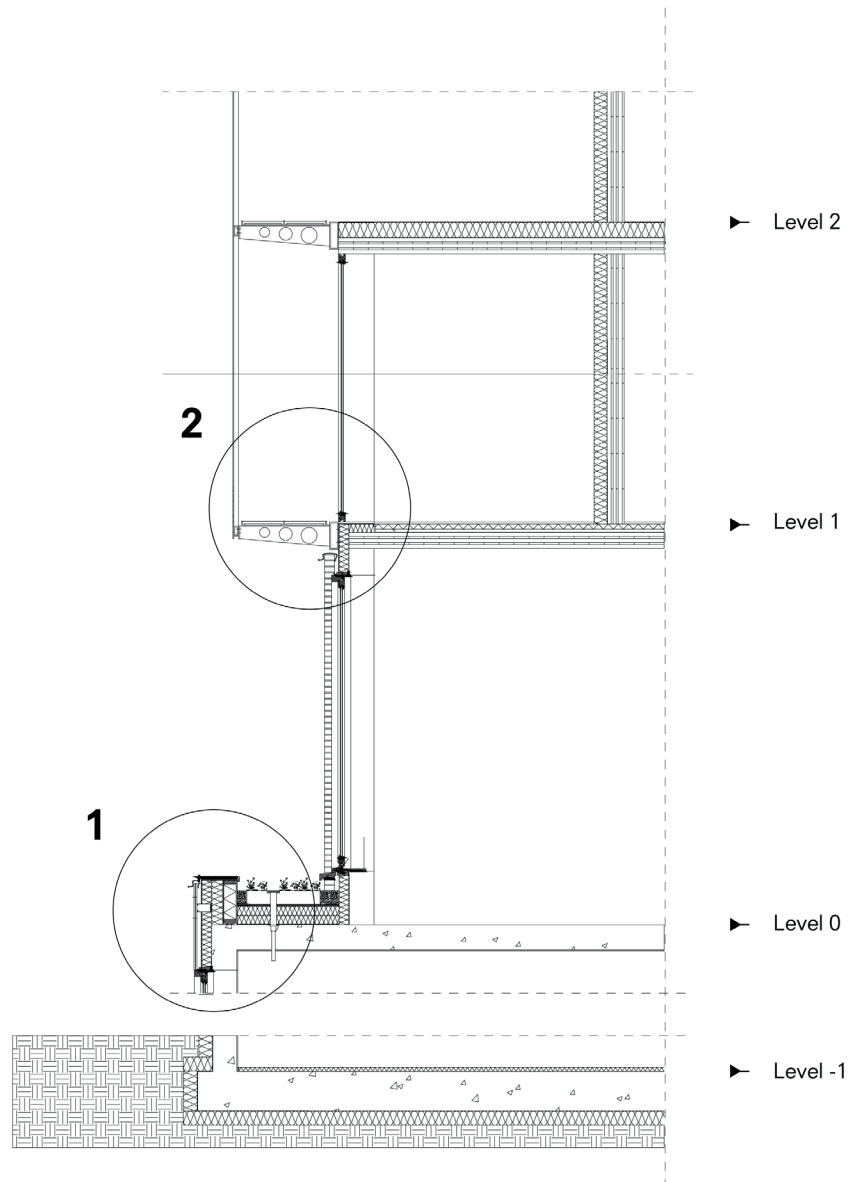




building envelope  
**ENVELOPE DETAIL 3**

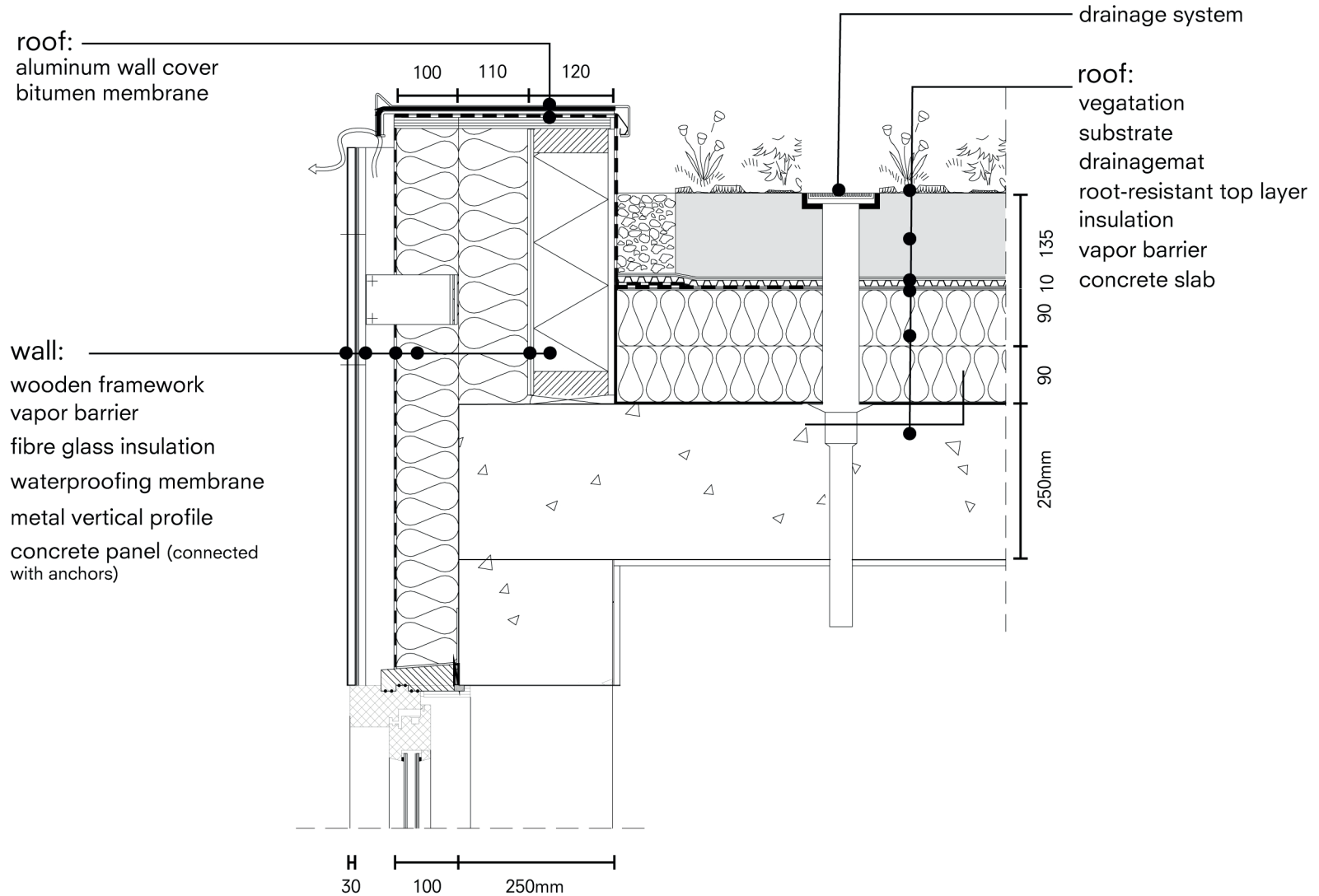


building envelope  
**ENVELOPE SECTION**

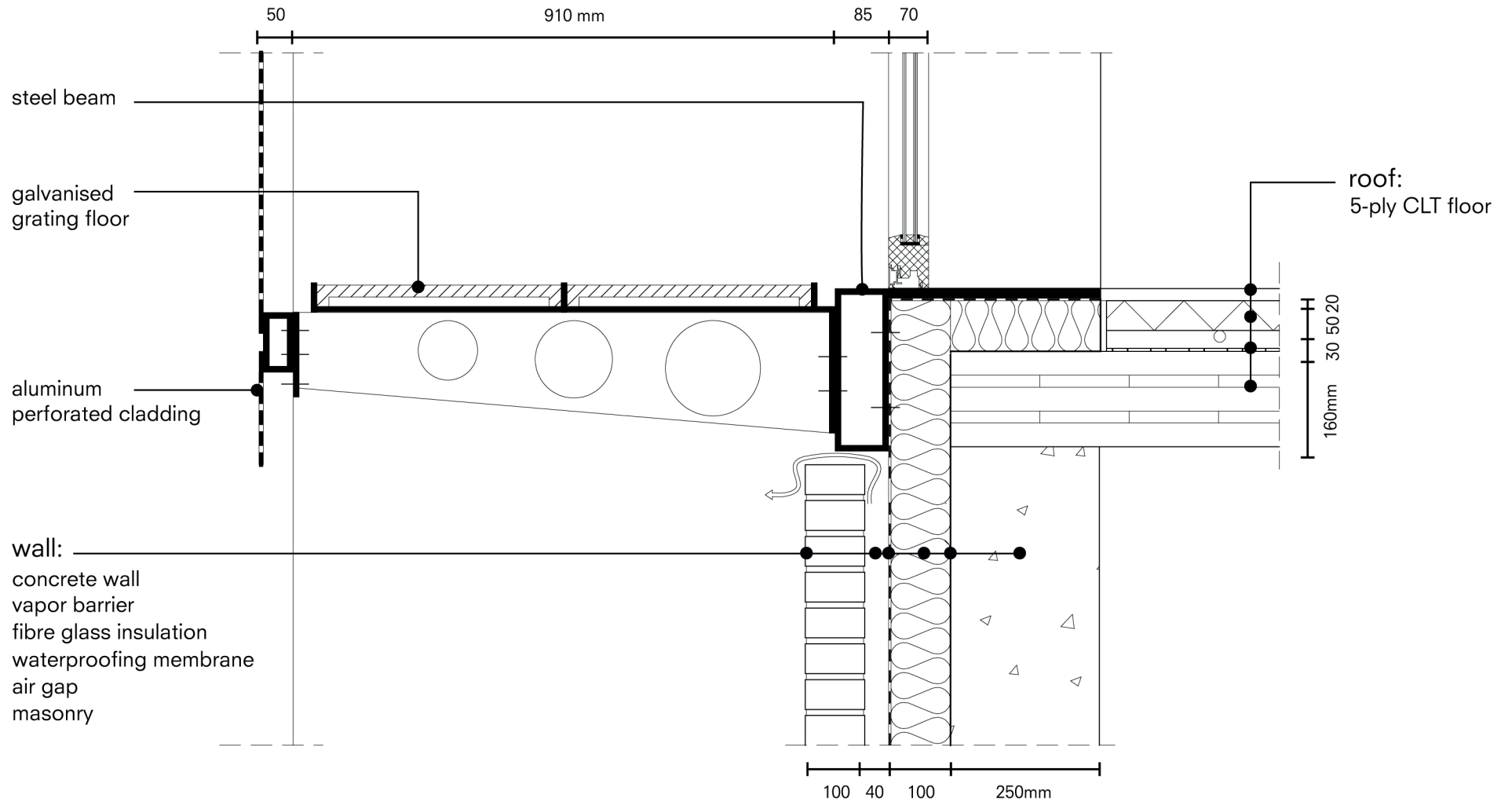


# building envelope

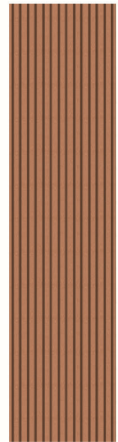
## ENVELOPE DETAIL 1



building envelope  
**ENVELOPE DETAIL 2**

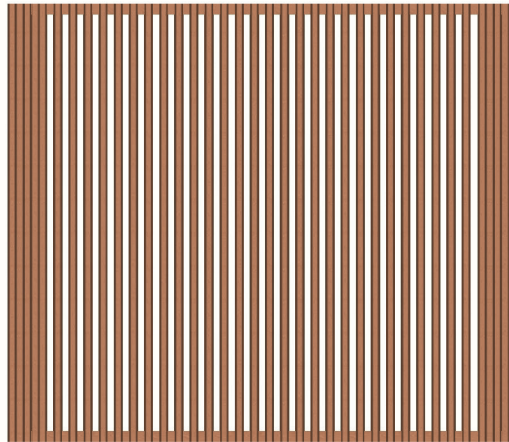


# TIMBER SLATS TYPES



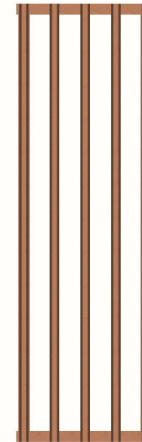
TYPE 1

- used for shear walls



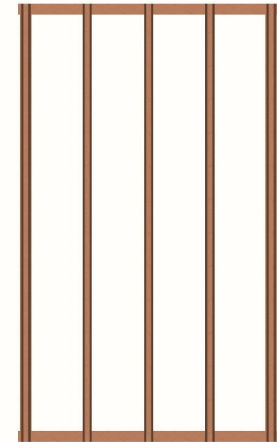
TYPE 2

- private corridors



TYPE 3

- private spaces

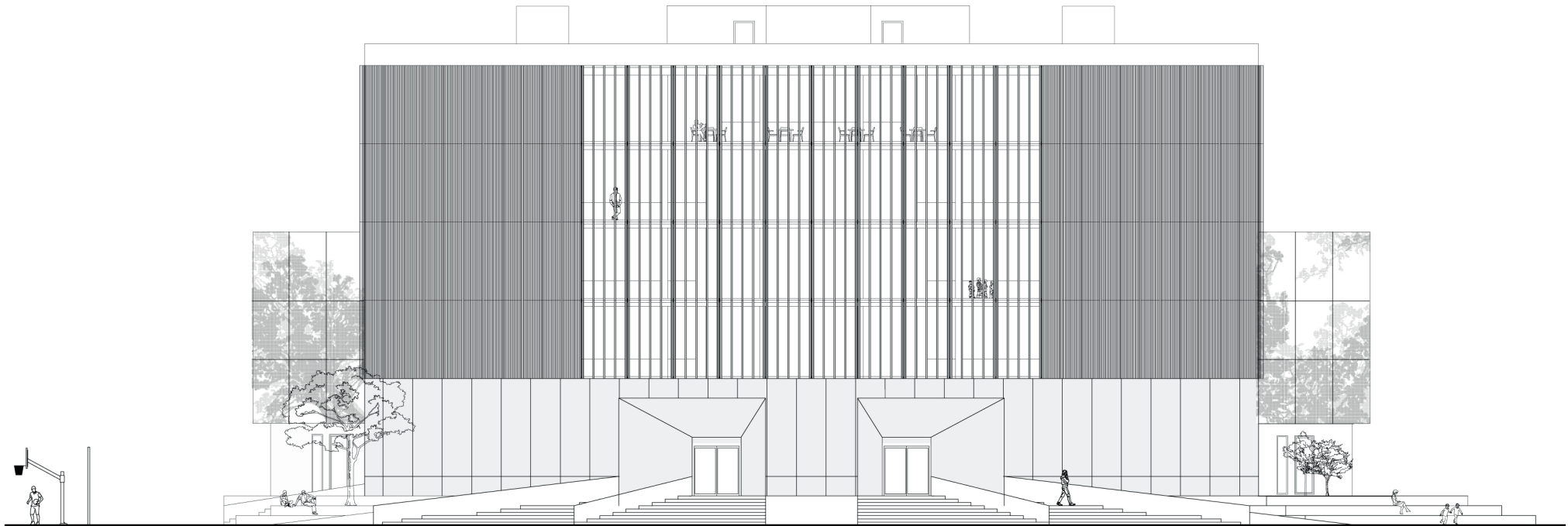


TYPE 4

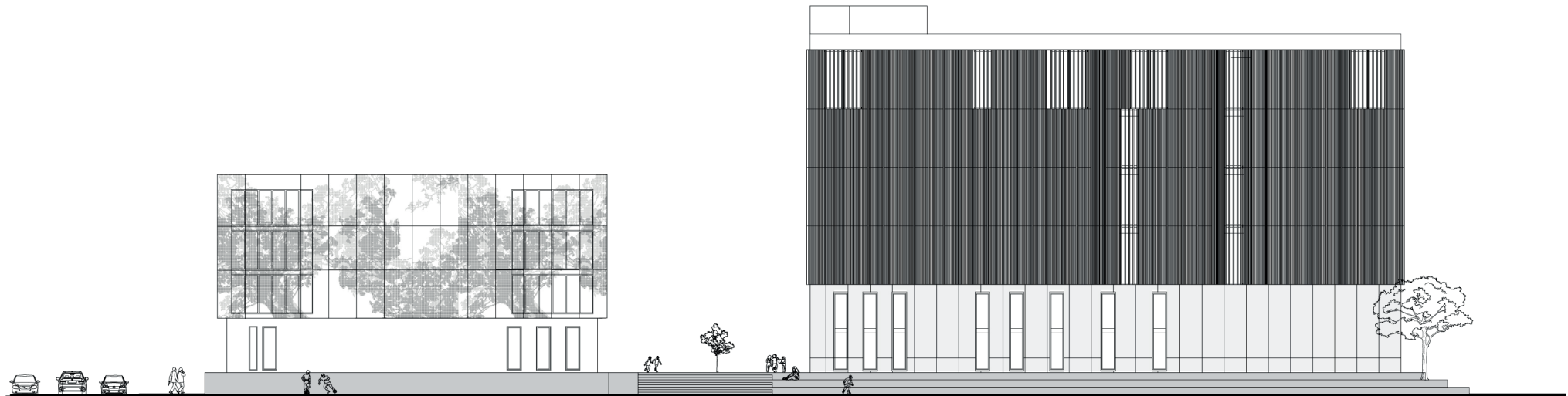
- public spaces

timber envelope comes in four types, these types are translated into the public vs. private aspect of the program in the building

building envelope  
**FRONT ELEVATION**



building envelope  
**LEFT ELEVATION**



building envelope  
**LEFT ELEVATION**





building envelope  
**RIGHT ELEVATION**



building envelope  
**RIGHT ELEVATION**



building envelope  
**BACK ELEVATION**



building envelope

# INTERIOR IMPRESSION



**THANK YOU!**

